

training and education of future water scientists, engineers, and technicians, (C) the preliminary exploration of new ideas that address water problems or expand understanding of water and water-related phenomena, and (D) the dissemination of research results to water managers and the public, and”.

Subsec. (e). Pub. L. 109-471, §2(b), substituted “3” for “5” and inserted “at producing measured results and applied water supply research” after “effectiveness”.

Subsec. (f)(1). Pub. L. 109-471, §2(c), amended par. (1) generally. Prior to amendment, par. (1) read as follows: “For the purpose of carrying out this section, there is authorized to be appropriated to the Secretary the sum of \$9,000,000 for fiscal year 2001, \$10,000,000 for each of fiscal years 2002 and 2003, and \$12,000,000 for each of fiscal years 2004 and 2005, such sums to remain available until expended.”

Subsec. (g)(1). Pub. L. 109-471, §2(d), substituted “\$6,000,000 for each of fiscal years 2007 through 2011” for “\$3,000,000 for fiscal year 2001, \$4,000,000 for each of fiscal years 2002 and 2003, and \$6,000,000 for each of fiscal years 2004 and 2005”.

Subsec. (h)(2). Pub. L. 109-471, §2(e), substituted “Reports” for “Report” in heading and inserted after first sentence “As part of the annual budget submission to Congress, the Secretary shall also provide a crosscut budget detailing the expenditures on activities listed under subsection (a)(1) and a report which details the level of applied research and the results of the activities authorized by this chapter, including potential and actual—” and subpars. (A) to (D).

2000—Subsec. (f)(1). Pub. L. 106-374, §1, substituted “\$9,000,000 for fiscal year 2001, \$10,000,000 for each of fiscal years 2002 and 2003, and \$12,000,000 for each of fiscal years 2004 and 2005” for “\$5,000,000 for fiscal year 1996, \$7,000,000 for each of fiscal years 1997 and 1998, and \$9,000,000 for each of fiscal years 1999 and 2000”.

Subsec. (g)(1). Pub. L. 106-374, §2, in first sentence, substituted “\$3,000,000 for fiscal year 2001, \$4,000,000 for each of fiscal years 2002 and 2003, and \$6,000,000 for each of fiscal years 2004 and 2005” for “\$3,000,000 for each of fiscal years 1996 through 2000”.

1996—Subsec. (c). Pub. L. 104-147, §3, substituted “2 non-Federal dollars for every 1 Federal dollar” for “one non-Federal dollar for every Federal dollar during the fiscal years ending September 30, 1985, and September 30, 1986, one and one-half non-Federal dollars for each Federal dollar during the fiscal years ending September 30, 1987, and September 30, 1988, and two non-Federal dollars for each Federal dollar during the fiscal year ending September 30, 1989 and thereafter”.

Subsec. (f)(1). Pub. L. 104-147, §4, substituted “of \$5,000,000 for fiscal year 1996, \$7,000,000 for each of fiscal years 1997 and 1998, and \$9,000,000 for each of fiscal years 1999 and 2000” for “of \$10,000,000 for each of the fiscal years ending September 30, 1989, through September 30, 1995.”

Subsec. (g)(1). Pub. L. 104-147, §5, substituted “of \$3,000,000 for each of fiscal years 1996 through 2000” for “of \$5,000,000 for each of the fiscal years 1991, 1992, 1993, 1994, and 1995”.

Subsec. (h). Pub. L. 104-147, §6, added subsec. (h).

1990—Subsec. (a). Pub. L. 101-397, §1(b), substituted “Federated States of Micronesia” for “Trust Territory of the Pacific Islands”.

Subsec. (b). Pub. L. 101-397, §1(c), inserted “promoting” after “for the purpose of” in last sentence.

Subsec. (b)(1). Pub. L. 101-397, §1(d), amended par. (1) generally. Prior to amendment, par. (1) read as follows: “plan, conduct, or otherwise arrange for competent research with respect to water resources, including investigations and experiments of either a basic or practical nature, or both; promote the dissemination and application of the results of these efforts; and provide for the training of scientists and engineers through such research, investigations, and experiments, and”.

Subsec. (c). Pub. L. 101-397, §1(e), substituted for period at end “and thereafter, such sums to be used only for the reimbursement of the direct cost expenditures incurred for the conduct of the water resources research program.”

Subsec. (e). Pub. L. 101-397, §1(f), amended subsec. (e) generally, substituting provisions directing that evaluation be conducted at least once every 5 years for provisions directing evaluation within two years after establishment of institute and at least once every four years thereafter and striking out provisions relating to composition and function of evaluation team and setting forth criteria for determination.

Subsec. (f)(1). Pub. L. 101-397, §1(g), substituted “September 30, 1989, through September 30, 1995,” for “September 30, 1985, through September 30, 1989”.

Subsec. (f)(2). Pub. L. 101-397, §1(h), substituted reference to subsec. (g) of this section for reference to section 10305 of this title.

Subsec. (g). Pub. L. 101-397, §1(m), added subsec. (g).

#### CONTRACTS OR COOPERATIVE AGREEMENTS WITH NATIONAL LABORATORIES

Pub. L. 101-397, §2, Sept. 28, 1990, 104 Stat. 854, provided that:

“(a) The Secretary of the Interior, in consultation with the Secretary of Agriculture and the Administrator of the Environmental Protection Agency, is authorized to enter into contracts or cooperative agreements, as the Secretary deems appropriate, with national laboratories (including Los Alamos National Laboratory) to carry out water resources research, development, and demonstration projects within the authorities of Public Law 98-242 [42 U.S.C. 10301 et seq.] (including the effects of potential climate changes on surface and ground water quality and quantity and the elimination of contamination of ground water aquifers).

“(b) The water resources research authorized in this section shall be undertaken under such rules and regulations as the Secretary deems appropriate and shall be carried out in close consultation and collaboration with the institutes established pursuant to Public Law 98-242 [42 U.S.C. 10301 et seq.], to the extent such research work affects the State in which the institute exists, and to the extent such institute agrees to consult and collaborate.

“(c) For the purposes of carrying out this section, there is authorized to be appropriated to the Secretary of the Interior the sum of \$10,000,000 for each of the fiscal years 1991 through 1995.”

#### § 10304. Research concerning water resource-related problems deemed to be in national interest

##### (a) Grants; matching funds

(1) In addition to the grants authorized by section 10303 of this title, the Secretary is authorized to make grants, on a dollar-for-dollar matching basis, to the institutes established under such section, as well as other qualified educational institutions, private foundations, private firms, individuals, and agencies of local or State government for research concerning any aspect of a water resource-related problem which the Secretary may deem to be in the national interest. Such grants shall be made with such advice and review by peer or other expert groups of appropriate interdisciplinary composition as the Secretary deems appropriate on the basis of the merits of the project and the need for the knowledge such project is expected to produce upon completion.

(2) Research funded under this section should to the extent possible utilize the best qualified graduate students so the Nation profits from the education and training benefits resulting from the use of the latest in technological developments in solving water problems.

##### (b) Applications for grants

Each application for a grant under this section shall state the nature of the project to be under-

taken, the period during which it will be pursued, the qualifications of the personnel who will direct and conduct it, the importance of the project to the Nation as well as to the region and State concerned, its relation to other research projects previously or currently being pursued, and the extent to which it will provide an opportunity for the training of water resources scientists.

**(c) Authorization of appropriations**

There is authorized to be appropriated to the Secretary the sum of \$10,000,000 for the purpose of carrying out this section for each of the fiscal years ending September 30, 1985, through September 30, 1995, such sums to remain available until expended.

(Pub. L. 98-242, title I, §105, Mar. 22, 1984, 98 Stat. 100; Pub. L. 101-397, §1(i), (j), Sept. 28, 1990, 104 Stat. 853.)

AMENDMENTS

1990—Subsec. (a)(3). Pub. L. 101-397, §1(i), struck out par. (3) which read as follows: “In cases where the Secretary determines, in accordance with criteria established by him, that research under this section is of a basic nature which would not otherwise be undertaken, the Secretary may approve grants under this section with a matching requirement other than that specified in paragraph (1) of this subsection.”

Subsec. (c). Pub. L. 101-397, §1(j), substituted “\$10,000,000” for “\$20,000,000” and “1995” for “1989”.

**§ 10305. Development of water-related technology**

**(a) Grants; matching funds**

(1) The Secretary shall make grants in addition to those authorized under sections 10303 and 10304 of this title for technology development concerning any aspect of water resources including water-related technology which the Secretary may deem to be of State, regional, or national importance. Activities funded under this section may be carried out by educational institutions, private firms, foundations, individuals, or agencies of State or local government. Care shall be taken to protect proprietary information of private individuals or firms associated with the technology.

(2) The Secretary may establish any condition for the matching of funds by the recipient of any grant or contract under this section which the Secretary considers to be in the best interest of the Nation considering the information transfer and technology needs of the Nation. However, in the case of institutes established by section 10303 of this title no match greater than that required under section 10303 of this title may be required.

**(b) Applications for grants**

Each application for a grant under this section shall state the nature of the project to be undertaken, the qualifications of the personnel who will direct and conduct it, facilities of the organization performing any technology development, the importance of the project to the Nation, region, and State concerned, and the potential benefit to be accrued.

**(c) Authorization of appropriations**

There is authorized to be appropriated to the Secretary the sum of \$6,000,000 for the purpose of

carrying out this section for each of the fiscal years ending September 30, 1990, through September 30, 1995; such sums to remain available until expended.

(Pub. L. 98-242, title I, §106, Mar. 22, 1984, 98 Stat. 100; Pub. L. 101-397, §1(n), Sept. 28, 1990, 104 Stat. 853.)

AMENDMENTS

1990—Pub. L. 101-397, in amending section generally, in subsec. (a)(1) struck out provision directing that grant be made on basis of merit and feasibility of project, in subsec. (a)(2) inserted provisions relating to match in the case of institutes established by section 10303 of this title, and in subsec. (c) substituted provisions authorizing \$6,000,000 appropriation for fiscal years 1990 through 1995, for provisions authorizing the same sum for fiscal years 1985 through 1989, and struck out provisions authorizing obligation of funds under this section and par. (1) and (2) designations.

**§ 10306. Administrative costs**

From the sums appropriated pursuant to this chapter, not more than 7.5 per centum shall be utilized for administrative costs.

(Pub. L. 98-242, title I, §107, Mar. 22, 1984, 98 Stat. 101; Pub. L. 109-471, §2(f), Jan. 11, 2007, 120 Stat. 3553.)

AMENDMENTS

2007—Pub. L. 109-471 substituted “7.5” for “15”.

REFERENCES IN TEXT

This chapter, referred to in text, was in the original “this Act”, meaning Pub. L. 98-242, Mar. 22, 1984, 98 Stat. 97, known as the Water Resources Research Act of 1984, which is classified principally to this chapter. For complete classification of this Act to the Code, see Short Title note set out under section 10301 of this title and Tables.

**§ 10307. Types of research and development**

The type of research and development to be undertaken under the authority of sections 10304 and 10305 of this title and to be encouraged by the institutes established under section 10303 of this title shall include the following:

- (1) Aspects of the hydrologic cycle;
- (2) Supply and demand for water;
- (3) Demineralization of saline and other impaired waters;
- (4) Conservation and best use of available supplies of water and methods of increasing such supplies;
- (5) Water reuse;
- (6) Depletion, contamination, and degradation of groundwater supplies;
- (7) Improvements in the productivity of water when used for agricultural, municipal, and commercial purposes;
- (8) The economic, legal, engineering, social, recreational, biological, geographic, ecological, and other aspects of water quality and quantity problems;
- (9) Scientific information dissemination activities, including identifying, assembling, and interpreting the results of scientific and engineering research on water resources problems; and
- (10) Providing means for improved communication of research results, having due regard for the varying conditions and needs for the respective States and regions.