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104TH CONGRESS
2D SESSION**H. R. 3198**

IN THE SENATE OF THE UNITED STATES

JULY 31, 1996

Received; read twice and referred to the Committee on Energy and Natural
Resources

SEPTEMBER 13, 1996

Reported by Mr. MURKOWSKI, without amendment

AN ACT

To reauthorize and amend the National Geologic Mapping
Act of 1992, 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 “National Geologic
5 Mapping Reauthorization Act of 1996”.

6 **SEC. 2. FINDINGS.**

7 Congress finds that—

1 (1) in enacting the National Geologic Mapping
2 Act of 1992 (43 U.S.C. 31a et seq.), Congress
3 found, among other things, that—

4 (A) during the 2 decades preceding enact-
5 ment of that Act, the production of geologic
6 maps had been drastically curtailed;

7 (B) geologic maps are the primary data
8 base for virtually all applied and basic earth-
9 science investigations;

10 (C) Federal agencies, State and local gov-
11 ernments, private industry, and the general
12 public depend on the information provided by
13 geologic maps to determine the extent of poten-
14 tial environmental damage before embarking on
15 projects that could lead to preventable, costly
16 environmental problems or litigation;

17 (D) the lack of proper geologic maps has
18 led to the poor design of such structures as
19 dams and waste-disposal facilities;

20 (E) geologic maps have proven indispen-
21 sable in the search for needed fossil fuel and
22 mineral resources; and

23 (F) a comprehensive nationwide program
24 of geologic mapping is required in order to sys-
25 tematically build the Nation's geologic-map

1 data base at a pace that responds to increasing
2 demand;

3 (2) the geologic mapping program called for by
4 that Act has not been fully implemented; and

5 (3) it is time for this important program to be
6 fully implemented.

7 **SEC. 3. REAUTHORIZATION AND AMENDMENT.**

8 (a) DEFINITIONS.—Section 3 of the National Geo-
9 logic Mapping Act of 1992 (43 U.S.C. 31b) is amended—

10 (1) by striking “As used in this Act:” and in-
11 serting “In this Act:”;

12 (2) by redesignating paragraphs (2), (3), (4),
13 and (5) as paragraphs (3), (4), (5), and (6), respec-
14 tively;

15 (3) by inserting after paragraph (1) the follow-
16 ing:

17 “(2) ASSOCIATION.—The term ‘Association’
18 means the Association of American State Geolo-
19 gists.”; and

20 (4) in each paragraph that does not have a
21 heading, by inserting a heading, in the same style as
22 the heading in paragraph (2), as added by para-
23 graph (3), the text of which is comprised of the term
24 defined in the paragraph.

1 (b) GEOLOGIC MAPPING PROGRAM.—Section 4 of the
2 National Geologic Mapping Act of 1992 (43 U.S.C. 31c)
3 is amended—

4 (1) by striking subsection (a) and inserting the
5 following:

6 “(a) ESTABLISHMENT.—

7 “(1) IN GENERAL.—There is established a na-
8 tional cooperative geologic mapping program be-
9 tween the United States Geological Survey and the
10 State geological surveys, acting through the Associa-
11 tion.

12 “(2) DESIGN, DEVELOPMENT, AND ADMINIS-
13 TRATION.—The cooperative geologic mapping pro-
14 gram shall be—

15 “(A) designed and administered to achieve
16 the objectives set forth in subsection (c);

17 “(B) developed in consultation with the ad-
18 visory committee; and

19 “(C) administered through the Survey.”;

20 (2) in subsection (b)—

21 (A) in the subsection heading by striking

22 “USGS” and inserting “THE SURVEY”;

23 (B) in paragraph (1)—

- 1 (i) by single-indenting the paragraphs,
2 double-indenting the subparagraphs, and
3 triple indenting the clauses;
- 4 (ii) by inserting “LEAD AGENCY.—”
5 before “The Survey”;
- 6 (iii) in subparagraph (A)—
- 7 (I) by striking “Committee on
8 Natural Resources” and inserting
9 “Committee on Resources”; and
- 10 (II) by striking “date of enact-
11 ment of this Act” and inserting “date
12 of enactment of the National Geologic
13 Mapping Reauthorization Act of
14 1996”;
- 15 (iv) in subparagraph (B)—
- 16 (I) by striking “State geological
17 surveys” and inserting “Association”;
18 and
- 19 (II) by striking “date of enact-
20 ment of this Act” and inserting “date
21 of enactment of the National Geologic
22 Mapping Reauthorization Act of
23 1996”; and
- 24 (v) in subparagraph (C)—

1 (I) by striking “date of enact-
2 ment of this Act” and inserting “date
3 of enactment of the National Geologic
4 Mapping Reauthorization Act of
5 1996”;

6 (II) by striking “Committee on
7 Natural Resources” and inserting
8 “Committee on Resources”;

9 (III) in clauses (i) and (ii) by in-
10 sserting “and the Association” after
11 “the Survey”;

12 (IV) by adding “and” at the end
13 of clause (ii); and

14 (V) by striking “; and” at the
15 end of clause (iii) and all that follows
16 through the end of the subparagraph
17 and inserting a period; and

18 (C) in paragraph (2)—

19 (i) by inserting “RESPONSIBILITIES
20 OF THE SECRETARY.—” before “In addi-
21 tion to”; and

22 (ii) in subparagraph (A) by striking
23 “State geological surveys” and inserting
24 “Association”;

25 (3) in subsection (c)—

1 (A) in paragraph (2) by striking “interpre-
2 tive” and inserting “interpretative”; and

3 (B) in paragraph (4) by striking “aware-
4 ness for” and inserting “awareness of”; and
5 (4) in subsection (d)—

6 (A) in paragraph (1) by inserting “FED-
7 ERAL COMPONENT.—” before “A Federal”;

8 (B) in paragraph (2)—

9 (i) by inserting “SUPPORT COMPO-
10 NENT.—” before “A geologic”; and

11 (ii) by striking subparagraph (D) and
12 inserting the following:

13 “(D) geochronologic and isotopic investiga-
14 tions that—

15 “(i) provide radiometric age dates for
16 geologic-map units; and

17 “(ii) fingerprint the geothermometry,
18 geobarometry, and alteration history of
19 geologic-map units,

20 which investigations shall be contributed to a
21 national geochronologic data base;”;

22 (C) in paragraph (3) by inserting “STATE
23 COMPONENT.—” before “A State”; and

24 (D) by striking paragraph (4) and insert-
25 ing the following:

1 “(4) EDUCATION COMPONENT.—A geologic
2 mapping education component—

3 “(A) the objectives of which shall be—

4 “(i) to develop the academic programs
5 that teach earth-science students the fun-
6 damental principles of geologic mapping
7 and field analysis; and

8 “(ii) to provide for broad education in
9 geologic mapping and field analysis
10 through support of field studies;

11 “(B) investigations under which shall be
12 integrated with the other mapping components
13 of the geologic mapping program and shall re-
14 spond to priorities identified for those compo-
15 nents; and

16 “(C) Federal funding for which shall be
17 matched by non-Federal sources on a 1-to-1
18 basis.”.

19 (c) ADVISORY COMMITTEE.—Section 5 of the Na-
20 tional Geologic Mapping Act of 1992 (43 U.S.C. 31d) is
21 amended—

22 (1) by striking subsection (a) and inserting the
23 following:

24 “(a) ESTABLISHMENT.—

1 “(1) IN GENERAL.—There shall be established
2 a 10-member geologic mapping advisory committee
3 to advise the Director on planning and implementa-
4 tion of the geologic mapping program.

5 “(2) MEMBERS EX OFFICIO.—Federal agency
6 members shall include the Administrator of the En-
7 vironmental Protection Agency or a designee, the
8 Secretary of Energy or a designee, the Secretary of
9 Agriculture or a designee, and the Assistant to the
10 President for Science and Technology or a designee.

11 “(3) APPOINTED MEMBERS.—Not later than 90
12 days after the date of enactment of the National
13 Geologic Mapping Reauthorization Act of 1996, in
14 consultation with the Association, the Secretary shall
15 appoint to the advisory committee 2 representatives
16 from the Survey (including the Chief Geologist, as
17 Chairman), 2 representatives from the State geologi-
18 cal surveys, 1 representative from academia, and 1
19 representative from the private sector.”; and

20 (2) in subsection (b)(3) by striking “and State”
21 and inserting “, State, and university”.

22 (d) GEOLOGIC MAPPING PROGRAM IMPLEMENTATION
23 PLAN.—Section 6 of the National Geologic Mapping Act
24 of 1992 (43 U.S.C. 31e) is amended—

1 (1) in paragraph (1) by inserting “cooperative”
2 after “national”;

3 (2) by striking paragraph (3)(C) and inserting
4 the following:

5 “(C) for the State geologic mapping com-
6 ponent, a priority-setting mechanism that re-
7 sponds to—

8 “(i) specific intrastate needs for geo-
9 logic-map information; and

10 “(ii) interstate needs shared by adja-
11 cent entities that have common require-
12 ments; and”;

13 (3) by striking paragraphs (4) and (5) and in-
14 serting the following:

15 “(4) a mechanism for adopting scientific and
16 technical mapping standards for preparing and pub-
17 lishing general-purpose and special-purpose geologic
18 maps to—

19 “(A) ensure uniformity of cartographic and
20 scientific conventions; and

21 “(B) provide a basis for judgment as to
22 the comparability and quality of map products;
23 and”;

24 (4) by redesignating paragraph (6) as para-
25 graph (5).

1 (e) NATIONAL GEOLOGIC-MAP DATA BASE.—Section
2 7 of the National Geologic Mapping Act of 1992 (43
3 U.S.C. 31f) is amended by striking subsection (b) and in-
4 serting the following:

5 “(b) STANDARDIZATION.—

6 “(1) IN GENERAL.—Geologic maps contributed
7 to the national archives shall have format, symbols,
8 and technical attributes that adhere to standards so
9 that archival information can be accessed, ex-
10 changed, and compared efficiently and accurately, as
11 required by Executive Order 12906 (59 Fed. Reg.
12 17,671 (1994)), which established the National Spa-
13 tial Data Infrastructure.

14 “(2) DEVELOPMENT OF STANDARDS.—Entities
15 that contribute geologic maps to the national ar-
16 chives shall develop the standards described in para-
17 graph (1) in cooperation with the Federal Geo-
18 graphic Data Committee, which is charged with
19 standards development and other data coordination
20 activities as described in Office of Management and
21 Budget revised Circular A–16.”.

22 (f) ANNUAL REPORT.—Section 8 of the National
23 Geologic Mapping Act of 1992 (43 U.S.C. 31g) is amend-
24 ed in the first sentence—

1 (1) by striking “Committee on Natural Re-
2 sources” and inserting “Committee on Resources”;
3 and

4 (2) by striking “program, and describing and
5 evaluating progress” and inserting “program and
6 describing and evaluating the progress”.

7 (g) AUTHORIZATION OF APPROPRIATIONS.—Section
8 9 of the National Geologic Mapping Act of 1992 (43
9 U.S.C. 31h) is amended to read as follows:

10 **“SEC. 9. AUTHORIZATION OF APPROPRIATIONS.**

11 “(a) IN GENERAL.—There are authorized to be ap-
12 propriated to carry out the national cooperative geologic
13 mapping program under this Act—

14 “(1) \$24,000,000 for fiscal year 1997;

15 “(2) \$26,000,000 for fiscal year 1998;

16 “(3) \$28,000,000 for fiscal year 1999; and

17 “(4) \$30,000,000 for fiscal year 2000.

18 “(b) ALLOCATION OF APPROPRIATED FUNDS.—

19 “(1) IN GENERAL.—Of the amount of funds
20 that are appropriated under subsection (a) for any
21 fiscal year up to the amount that is equal to the
22 amount appropriated to carry out the national coop-
23 erative geologic mapping program for fiscal year
24 1996—

1 “(A) not less than 20 percent shall be allo-
2 cated to State mapping activities; and

3 “(B) not less than 2 percent shall be allo-
4 cated to educational mapping activities.

5 “(2) INCREASED APPROPRIATIONS.—Of the
6 amount of funds that are appropriated under sub-
7 section (a) for any fiscal year up to the amount that
8 exceeds the amount appropriated to carry out the
9 national cooperative geologic mapping program for
10 fiscal year 1996—

11 “(A) for fiscal year 1997—

12 “(i) 76 percent shall be allocated for
13 Federal mapping and support mapping ac-
14 tivities;

15 “(ii) 22 percent shall be allocated for
16 State mapping activities; and

17 “(iii) 2 percent shall be allocated for
18 educational mapping activities;

19 “(B) for fiscal year 1998—

20 “(i) 75 percent shall be allocated for
21 Federal mapping and support mapping ac-
22 tivities;

23 “(ii) 23 percent shall be allocated for
24 State mapping activities; and

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