

104TH CONGRESS
2D SESSION

S. 1731

To reauthorize and amend the National Geologic Mapping Act of 1992,
and for other purposes.

IN THE SENATE OF THE UNITED STATES

MAY 7, 1996

Mr. CRAIG (for himself, Mr. BENNETT, and Mr. BRYAN) introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

A BILL

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—

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

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

4 (B) geologic maps are the primary data
5 base for virtually all applied and basic earth-
6 science investigations;

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

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

17 (E) geologic maps have proven indispen-
18 sable in the search for needed fossil fuel and
19 mineral resources; and

20 (F) a comprehensive nationwide program
21 of geologic mapping is required in order to sys-
22 tematically build the Nation's geologic-map
23 data base at a pace that responds to increasing
24 demand;

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

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

5 **SEC. 3. REAUTHORIZATION AND AMENDMENT.**

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

8 (1) by striking “As used in this Act:” and in-
9 serting “In this Act:”

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

13 (3) by inserting after paragraph (1) the follow-
14 ing:

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

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

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

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

3 “(a) ESTABLISHMENT.—

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

9 “(2) DESIGN, DEVELOPMENT, AND ADMINIS-
10 TRATION.—The cooperative geologic mapping pro-
11 gram shall be—

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

14 “(B) developed in consultation with the ad-
15 visory committee; and

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

17 (2) in subsection (b)—

18 (A) in the subsection heading by striking
19 “USGS” and inserting “THE SURVEY”;

20 (B) in paragraph (1)—

21 (i) by single-indenting the paragraphs,
22 double-indenting the subparagraphs, and
23 triple indenting the clauses;

24 (ii) by inserting “LEAD AGENCY.—”
25 before “The Survey”;

1 (iii) in subparagraph (A)—

2 (I) by striking “Committee on
3 Natural Resources” and inserting
4 “Committee on Resources”; and

5 (II) by striking “date of enact-
6 ment of this Act” and inserting “date
7 of enactment of the National Geologic
8 Mapping Reauthorization Act of
9 1995”;

10 (iv) in subparagraph (B)—

11 (I) by striking “State geological
12 surveys” and inserting “Association”;
13 and

14 (II) by striking “date of enact-
15 ment of this Act” and inserting “date
16 of enactment of the National Geologic
17 Mapping Reauthorization Act of
18 1995”; and

19 (v) in subparagraph (C)—

20 (I) by striking “date of enact-
21 ment of this Act” and inserting “date
22 of enactment of the National Geologic
23 Mapping Reauthorization Act of
24 1995”;

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

4 (III) in clauses (i) and (ii) by in-
5 serting “and the Association” after
6 “the Survey”;

7 (IV) by adding “and” at the end
8 of clause (ii); and

9 (V) by striking “; and” at the
10 end of clause (iii) and all that follows
11 through the end of the subparagraph
12 and inserting a period; and

13 (C) in paragraph (2)—

14 (i) by inserting “RESPONSIBILITIES
15 OF THE SECRETARY.—” before “In addi-
16 tion to”; and

17 (ii) in subparagraph (A) by striking
18 “State geological surveys” and inserting
19 “Association”;

20 (3) in subsection (c)—

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

23 (B) in paragraph (4) by striking “aware-
24 ness for” and inserting “awareness of”; and

25 (4) in subsection (d)—

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

3 (B) in paragraph (2)—

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

6 (ii) by striking subparagraph (D) and
7 inserting the following:

8 “(D) geochronologic and isotopic investiga-
9 tions that—

10 (i) provide radiometric age dates for
11 geologic-map units; and

12 (ii) fingerprint the geothermometry,
13 geobarometry, and alteration history of
14 geologic-map units,

15 which investigations shall be contributed to a
16 national geochronologic data base;”;

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

19 (D) by striking paragraph (4) and insert-
20 ing the following:

21 “(4) EDUCATION COMPONENT.—A geologic
22 mapping education component—

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

24 “(i) to develop the academic programs
25 that teach earth-science students the fun-

1 damental principles of geologic mapping
2 and field analysis; and

3 “(ii) to provide for broad education in
4 geologic mapping and field analysis
5 through support of field studies;

6 “(B) investigations under which shall be
7 integrated with the other mapping components
8 of the geologic mapping program and shall re-
9 spond to priorities identified for those compo-
10 nents; and

11 “(C) Federal funding for which shall be
12 matched by non-Federal sources on a 1-to-1
13 basis.”.

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

17 (1) by striking subsection (a) and inserting the
18 following:

19 “(a) ESTABLISHMENT.—

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

24 “(2) MEMBERS EX OFFICIO.—Federal agency
25 members shall include the Administrator of the En-

1 vironmental Protection Agency or a designee, the
 2 Secretary of Energy or a designee, the Secretary of
 3 Agriculture or a designee, and the Assistant to the
 4 President for Science and Technology or a designee.

5 “(3) APPOINTED MEMBERS.—Not later than 90
 6 days after the date of enactment of the National
 7 Geologic Mapping Reauthorization Act of 1995, in
 8 consultation with the Association, the Secretary shall
 9 appoint to the advisory committee 2 representatives
 10 from the Survey (including the Chief Geologist, as
 11 Chairman), 2 representatives from the State geologi-
 12 cal surveys, 1 representative from academia, and 1
 13 representative from the private sector.”; and

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

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

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

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

23 “(C) for the State geologic mapping com-
 24 ponent, a priority-setting mechanism that re-
 25 sponds to—

1 “(i) specific intrastate needs for geo-
2 logic-map information; and

3 “(ii) interstate needs shared by adja-
4 cent entities that have common require-
5 ments; and”;

6 (3) by striking paragraphs (4) and (5) and in-
7 serting the following:

8 “(4) a mechanism for adopting scientific and
9 technical mapping standards for preparing and pub-
10 lishing general-purpose and special-purpose geologic
11 maps to—

12 “(A) ensure uniformity of cartographic and
13 scientific conventions; and

14 “(B) provide a basis for judgment as to
15 the comparability and quality of map products;
16 and”;

17 (4) by redesignating paragraph (6) as para-
18 graph (5).

19 (e) NATIONAL GEOLOGIC-MAP DATA BASE.—Section
20 7 of the National Geologic Mapping Act of 1992 (43
21 U.S.C. 31f) is amended by striking subsection (b) and in-
22 serting the following:

23 “(b) STANDARDIZATION.—

24 “(1) IN GENERAL.—Geologic maps contributed
25 to the national archives shall have format, symbols,

1 and technical attributes that adhere to standards so
2 that archival information can be accessed, ex-
3 changed, and compared efficiently and accurately, as
4 required by Executive Order 12906 (59 Fed. Reg.
5 17,671 (1994), which established the National Spa-
6 tial Data Infrastructure.

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

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

18 (1) by striking “Committee on Natural Re-
19 sources” and inserting “Committee on Resources”;
20 and

21 (2) by striking “program, and describing and
22 evaluating progress” and inserting “program and
23 describing and evaluating the progress”.

1 (g) AUTHORIZATION OF APPROPRIATIONS.—Section
 2 9 of the National Geologic Mapping Act of 1992 (43
 3 U.S.C. 31h) is amended to read as follows:

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

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

8 “(1) \$24,000,000 for fiscal year 1997;

9 “(2) \$26,000,000 for fiscal year 1998;

10 “(3) \$28,000,000 for fiscal year 1999; and

11 “(4) \$30,000,000 for fiscal year 2000.

12 “(b) ALLOCATION OF APPROPRIATED FUNDS.—

13 “(1) IN GENERAL.—Of the amount of funds
 14 that are appropriated under subsection (a) for any
 15 fiscal year up to the amount that is equal to the
 16 amount appropriated to carry out the national coop-
 17 erative geologic mapping program for fiscal year
 18 1996—

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

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

23 “(2) INCREASED APPROPRIATIONS.—Of the
 24 amount of funds that are appropriated under sub-
 25 section (a) for any fiscal year up to the amount that

1 exceeds the amount appropriated to carry out the
2 national cooperative geologic mapping program for
3 fiscal year 1996—

4 “(A) for fiscal year 1997—

5 “(i) 76 percent shall be allocated for
6 Federal mapping and support mapping ac-
7 tivities;

8 “(ii) 22 percent shall be allocated for
9 State mapping activities; and

10 “(iii) 2 percent shall be allocated for
11 educational mapping activities;

12 “(B) for fiscal year 1998—

13 “(i) 75 percent shall be allocated for
14 Federal mapping and support mapping ac-
15 tivities;

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

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

20 “(C) for fiscal year 1999—

21 “(i) 74 percent shall be allocated for
22 Federal mapping and support mapping ac-
23 tivities;

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

1 “(iii) 2 percent shall be allocated for
2 educational mapping activities; and
3 “(D) for fiscal year 2000—
4 “(i) 73 percent shall be allocated for
5 Federal mapping and support mapping ac-
6 tivities;
7 “(ii) 25 percent shall be allocated for
8 State mapping activities; and
9 “(iii) 2 percent shall be allocated for
10 educational mapping activities.”.

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