

Union Calendar No. 342

104<sup>TH</sup> CONGRESS  
2D Session

**H. R. 3198**

[Report No. 104-668]

**A BILL**

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

JULY 11, 1996

Committed to the Committee of the Whole House on the  
State of the Union and ordered to be printed

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## IN THE HOUSE OF REPRESENTATIVES

MARCH 29, 1996

Mr. CALVERT introduced the following bill; which was referred to the  
Committee on Resources

JULY 11, 1996

Additional sponsors: Mr. RAHALL, Mr. LIPINSKI, Mrs. VUCANOVICH, Mr.  
SANDERS, Mr. GALLEGLY, Mr. HAYWORTH, and Mrs. MORELLA

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## 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,*

1 **SECTION 1. SHORT TITLE.**

2       This Act may be cited as the “National Geologic  
3 Mapping Reauthorization Act of 1996”.

4 **SEC. 2. FINDINGS.**

5       Congress finds that—

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

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

12           (B) geologic maps are the primary data  
13 base for virtually all applied and basic earth-  
14 science investigations;

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

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

1 (E) geologic maps have proven indispen-  
2 sable in the search for needed fossil fuel and  
3 mineral resources; and

4 (F) a comprehensive nationwide program  
5 of geologic mapping is required in order to sys-  
6 tematically build the Nation's geologic-map  
7 data base at a pace that responds to increasing  
8 demand;

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

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

13 **SEC. 3. REAUTHORIZATION AND AMENDMENT.**

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

16 (1) by striking “As used in this Act:” and in-  
17 serting “In this Act.”;

18 (2) by redesignating paragraphs (2), (3), (4),  
19 and (5) as paragraphs (3), (4), (5), and (6), respec-  
20 tively;

21 (3) by inserting after paragraph (1) the follow-  
22 ing:

23 “(2) ASSOCIATION.—The term ‘Association’  
24 means the Association of American State Geolo-  
25 gists.”; and

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

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

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

11          “(a) ESTABLISHMENT.—

12               “(1) IN GENERAL.—There is established a na-  
13               tional cooperative geologic mapping program be-  
14               tween the United States Geological Survey and the  
15               State geological surveys, acting through the Associa-  
16               tion.

17               “(2) DESIGN, DEVELOPMENT, AND ADMINIS-  
18               TRATION.—The cooperative geologic mapping pro-  
19               gram shall be—

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

22                       “(B) developed in consultation with the ad-  
23                       visory committee; and

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

25          (2) in subsection (b)—

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

3 (B) in paragraph (1)—

4 (i) by single-indenting the paragraphs,  
5 double-indenting the subparagraphs, and  
6 triple indenting the clauses;

7 (ii) by inserting “LEAD AGENCY.—”  
8 before “The Survey”;

9 (iii) in subparagraph (A)—

10 (I) by striking “Committee on  
11 Natural Resources” and inserting  
12 “Committee on Resources”; and

13 (II) by striking “date of enact-  
14 ment of this Act” and inserting “date  
15 of enactment of the National Geologic  
16 Mapping Reauthorization Act of  
17 1996”;

18 (iv) in subparagraph (B)—

19 (I) by striking “State geological  
20 surveys” and inserting “Association”;  
21 and

22 (II) by striking “date of enact-  
23 ment of this Act” and inserting “date  
24 of enactment of the National Geologic

1 Mapping Reauthorization Act of  
2 1996”; and

3 (v) in subparagraph (C)—

4 (I) by striking “date of enact-  
5 ment of this Act” and inserting “date  
6 of enactment of the National Geologic  
7 Mapping Reauthorization Act of  
8 1996”;

9 (II) by striking “Committee on  
10 Natural Resources” and inserting  
11 “Committee on Resources”;

12 (III) in clauses (i) and (ii) by in-  
13 serting “and the Association” after  
14 “the Survey”;

15 (IV) by adding “and” at the end  
16 of clause (ii); and

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

21 (C) in paragraph (2)—

22 (i) by inserting “RESPONSIBILITIES  
23 OF THE SECRETARY.—” before “In addi-  
24 tion to”; and

1 (ii) in subparagraph (A) by striking  
2 “State geological surveys” and inserting  
3 “Association”;

4 (3) in subsection (c)—

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

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

9 (4) in subsection (d)—

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

12 (B) in paragraph (2)—

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

15 (ii) by striking subparagraph (D) and  
16 inserting the following:

17 “(D) geochronologic and isotopic investiga-  
18 tions that—

19 “(i) provide radiometric age dates for  
20 geologic-map units; and

21 “(ii) fingerprint the geothermometry,  
22 geobarometry, and alteration history of  
23 geologic-map units,

24 which investigations shall be contributed to a  
25 national geochronologic data base;”;



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

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

5 “(4) EDUCATION COMPONENT.—A geologic  
6 mapping education component—

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

8 “(i) to develop the academic programs  
9 that teach earth-science students the fun-  
10 damental principles of geologic mapping  
11 and field analysis; and

12 “(ii) to provide for broad education in  
13 geologic mapping and field analysis  
14 through support of field studies;

15 “(B) investigations under which shall be  
16 integrated with the other mapping components  
17 of the geologic mapping program and shall re-  
18 spond to priorities identified for those compo-  
19 nents; and

20 “(C) Federal funding for which shall be  
21 matched by non-Federal sources on a 1-to-1  
22 basis.”.

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

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

3           “(a) ESTABLISHMENT.—

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

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

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

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

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

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

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

8 “(C) for the State geologic mapping com-  
9 ponent, a priority-setting mechanism that re-  
10 sponds to—

11 “(i) specific intrastate needs for geo-  
12 logic-map information; and

13 “(ii) interstate needs shared by adja-  
14 cent entities that have common require-  
15 ments; and”;

16 (3) by striking paragraphs (4) and (5) and in-  
17 serting the following:

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

22 “(A) ensure uniformity of cartographic and  
23 scientific conventions; and

1           “(B) provide a basis for judgment as to  
2           the comparability and quality of map products;  
3           and”; and

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

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

10          “(b) STANDARDIZATION.—

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

19           “(2) DEVELOPMENT OF STANDARDS.—Entities  
20           that contribute geologic maps to the national ar-  
21           chives shall develop the standards described in para-  
22           graph (1) in cooperation with the Federal Geo-  
23           graphic Data Committee, which is charged with  
24           standards development and other data coordination

1 activities as described in Office of Management and  
2 Budget revised Circular A-16.”.

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

6 (1) by striking “Committee on Natural Re-  
7 sources” and inserting “Committee on Resources”;  
8 and

9 (2) by striking “program, and describing and  
10 evaluating progress” and inserting “program and  
11 describing and evaluating the progress”.

12 (g) AUTHORIZATION OF APPROPRIATIONS.—Section  
13 9 of the National Geologic Mapping Act of 1992 (43  
14 U.S.C. 31h) is amended to read as follows:

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

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

19 “(1) \$24,000,000 for fiscal year 1997;

20 “(2) \$26,000,000 for fiscal year 1998;

21 “(3) \$28,000,000 for fiscal year 1999; and

22 “(4) \$30,000,000 for fiscal year 2000.

23 “(b) ALLOCATION OF APPROPRIATED FUNDS.—

24 “(1) IN GENERAL.—Of the amount of funds  
25 that are appropriated under subsection (a) for any

1       fiscal year up to the amount that is equal to the  
2       amount appropriated to carry out the national coop-  
3       erative geologic mapping program for fiscal year  
4       1996—

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

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

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

15              “(A) for fiscal year 1997—

16                      “(i) 76 percent shall be allocated for  
17              Federal mapping and support mapping ac-  
18              tivities;

19                      “(ii) 22 percent shall be allocated for  
20              State mapping activities; and

21                      “(iii) 2 percent shall be allocated for  
22              educational mapping activities;

23              “(B) for fiscal year 1998—

1 “(i) 75 percent shall be allocated for  
2 Federal mapping and support mapping ac-  
3 tivities;

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

6 “(iii) 2 percent shall be allocated for  
7 educational mapping activities;

8 “(C) for fiscal year 1999—

9 “(i) 74 percent shall be allocated for  
10 Federal mapping and support mapping ac-  
11 tivities;

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

14 “(iii) 2 percent shall be allocated for  
15 educational mapping activities; and

16 “(D) for fiscal year 2000—

17 “(i) 73 percent shall be allocated for  
18 Federal mapping and support mapping ac-  
19 tivities;

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

22 “(iii) 2 percent shall be allocated for  
23 educational mapping activities.”.