

106TH CONGRESS  
1ST SESSION

# H. R. 1184

To authorize appropriations for carrying out the Earthquake Hazards Reduction Act of 1977 for fiscal years 2000 and 2001, and for other purposes.

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## IN THE HOUSE OF REPRESENTATIVES

MARCH 18, 1999

Mr. SMITH of Michigan (for himself and Mrs. MORELLA) introduced the following bill; which was referred to the Committee on Science, and in addition to the Committee on Resources, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

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## A BILL

To authorize appropriations for carrying out the Earthquake Hazards Reduction Act of 1977 for fiscal years 2000 and 2001, 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 “Earthquake Hazards  
5 Reduction Authorization Act of 1999”.

1 **SEC. 2. AUTHORIZATION OF APPROPRIATIONS.**

2 (a) FEDERAL EMERGENCY MANAGEMENT AGEN-  
3 CY.—Section 12(a) of the Earthquake Hazards Reduction  
4 Act of 1977 (42 U.S.C. 7706(a)) is amended—

5 (1) by striking “(1) GENERAL.—” and all that  
6 follows through “(7) There” and inserting “GEN-  
7 ERAL.—There”;

8 (2) by striking “1998, and” and inserting  
9 “1998,”; and

10 (3) by inserting “, \$19,800,000 for the fiscal  
11 year ending September 30, 2000, and \$20,400,000  
12 for the fiscal year ending September 30, 2001” after  
13 “September 30, 1999”.

14 (b) UNITED STATES GEOLOGICAL SURVEY.—(1) Sec-  
15 tion 12(b) of the Earthquake Hazards Reduction Act of  
16 1977 (42 U.S.C. 7706(b)) is amended—

17 (A) by inserting “There are authorized to be  
18 appropriated to the Secretary of the Interior for  
19 purposes of carrying out, through the Director of  
20 the United States Geological Survey, the responsibil-  
21 ities that may be assigned to the Director under this  
22 Act \$46,100,000 for fiscal year 2000, of which  
23 \$3,500,000 shall be used for the Global Seismic Net-  
24 work and \$100,000 shall be used for the Scientific  
25 Earthquake Studies Advisory Committee established  
26 under section 6 of the Earthquake Hazards Reduc-

1       tion Authorization Act of 1999; and \$47,500,000 for  
2       fiscal year 2001, of which \$3,600,000 shall be used  
3       for the Global Seismic Network and \$100,000 shall  
4       be used for the Scientific Earthquake Studies Advi-  
5       sory Committee established under section 6 of the  
6       Earthquake Hazards Reduction Authorization Act of  
7       1999.” after “operated by the Agency.”;

8               (B) by striking “and” at the end of paragraph  
9       (1);

10              (C) by striking the comma at the end of para-  
11       graph (2) and inserting a semicolon; and

12              (D) by inserting after paragraph (2) the fol-  
13       lowing new paragraphs:

14              “(3) \$9,000,000 of the amount authorized to be  
15       appropriated for fiscal year 2000; and

16              “(4) \$9,500,000 of the amount authorized to be  
17       appropriated for fiscal year 2001,”.

18       (2) Section 2(a)(7) of the Act entitled “An Act to  
19       authorize appropriations for carrying out the Earthquake  
20       Hazards Reduction Act of 1977 for fiscal years 1998 and  
21       1999, and for other purposes” is amended by inserting  
22       “, \$1,600,000 for fiscal year 2000, and \$1,650,000 for  
23       fiscal year 2001” after “1998 and 1999”.

1 (c) NATIONAL SCIENCE FOUNDATION.—Section  
2 12(c) of the Earthquake Hazards Reduction Act of 1977  
3 (42 U.S.C. 7706(c)) is amended—

4 (1) by striking “1998, and” and inserting  
5 “1998,”; and

6 (2) by striking the period at the end and insert-  
7 ing “, and (5) \$19,000,000 for engineering research  
8 and \$10,900,000 for geosciences research for the fis-  
9 cal year ending September 30, 2000. There are au-  
10 thorized to be appropriated to the National Science  
11 Foundation \$19,600,000 for engineering research  
12 and \$11,200,000 for geosciences research for fiscal  
13 year 2001.”.

14 (d) NATIONAL INSTITUTE OF STANDARDS AND  
15 TECHNOLOGY.—Section 12(d) of the Earthquake Hazards  
16 Reduction Act of 1977 (42 U.S.C. 7706(d)) is amended—

17 (1) by striking “1998, and”; and

18 (2) by inserting “, \$2,200,000 for fiscal year  
19 2000, and \$2,265,000 for fiscal year 2001” after  
20 “September 30, 1999”.

21 **SEC. 3. REPEALS.**

22 Section 10 and subsections (e) and (f) of section 12  
23 of the Earthquake Hazards Reduction Act of 1977 (42  
24 U.S.C. 7705d and 7706 (e) and (f)) are repealed.

1 **SEC. 4. ADVANCED NATIONAL SEISMIC RESEARCH AND**  
2 **MONITORING SYSTEM.**

3 The Earthquake Hazards Reduction Act of 1977 (42  
4 U.S.C. 7701 et seq.) is amended by adding at the end  
5 the following new section:

6 **“SEC. 13. ADVANCED NATIONAL SEISMIC RESEARCH AND**  
7 **MONITORING SYSTEM.**

8 “(a) ESTABLISHMENT.—The Director of the United  
9 States Geological Survey shall establish and operate an  
10 Advanced National Seismic Research and Monitoring Sys-  
11 tem. The purpose of such system shall be to organize,  
12 modernize, standardize, and stabilize the national, re-  
13 gional, and urban seismic monitoring systems in the  
14 United States, including sensors, recorders, and data anal-  
15 ysis centers, into a coordinated system that will measure  
16 and record the full range of frequencies and amplitudes  
17 exhibited by seismic waves, in order to enhance earthquake  
18 research and warning capabilities.

19 “(b) MANAGEMENT PLAN.—Not later than 120 days  
20 after the date of the enactment of the Earthquake Haz-  
21 ards Reduction Authorization Act of 1999, the Director  
22 of the United States Geological Survey shall transmit to  
23 the Congress a 5-year management plan for establishing  
24 and operating the Advanced National Seismic Research  
25 and Monitoring System. The plan shall include annual  
26 cost estimates for both modernization and operation, mile-

1 stones, standards, and performance goals, as well as plans  
2 for securing the participation of all existing networks in  
3 the Advanced National Seismic Research and Monitoring  
4 System and for establishing new, or enhancing existing,  
5 partnerships to leverage resources.

6 “(c) AUTHORIZATION OF APPROPRIATIONS.—

7 “(1) EXPANSION AND MODERNIZATION.—In ad-  
8 dition to amounts appropriated under section 12(b),  
9 there are authorized to be appropriated to the Sec-  
10 retary of the Interior, to be used by the Director of  
11 the United States Geological Survey to establish the  
12 Advanced National Seismic Research and Moni-  
13 toring System—

14 “(A) \$33,500,000 for fiscal year 2000;

15 “(B) \$33,700,000 for fiscal year 2001;

16 “(C) \$33,700,000 for fiscal year 2002;

17 “(D) \$33,600,000 for fiscal year 2003;

18 and

19 “(E) \$33,500,000 for fiscal year 2004.

20 “(2) OPERATION.—In addition to amounts ap-  
21 propriated under section 12(b), there are authorized  
22 to be appropriated to the Secretary of the Interior,  
23 to be used by the Director of the United States Geo-  
24 logical Survey to operate the Advanced National  
25 Seismic Research and Monitoring System—

1                   “(A) \$4,500,000 for fiscal year 2000; and  
2                   “(B) \$10,300,000 for fiscal year 2001.”.

3 **SEC. 5. NETWORK FOR EARTHQUAKE ENGINEERING SIM-**  
4 **ULATION.**

5           The Earthquake Hazards Reduction Act of 1977 (42  
6 U.S.C. 7701 et seq.) is amended by adding at the end  
7 the following new section:

8 **“SEC. 14. NETWORK FOR EARTHQUAKE ENGINEERING SIM-**  
9 **ULATION.**

10           “(a) ESTABLISHMENT.—The Director of the Na-  
11 tional Science Foundation shall establish a Network for  
12 Earthquake Engineering Simulation that will upgrade,  
13 link, and integrate a system of geographically distributed  
14 experimental facilities for earthquake engineering testing  
15 of full-sized structures and their components and partial-  
16 scale physical models. The system shall be integrated  
17 through networking software so that integrated models  
18 and databases can be used to create model-based simula-  
19 tion, and the components of the system shall be inter-  
20 connected with a computer network and allow for remote  
21 access, information sharing, and collaborative research.

22           “(b) AUTHORIZATION OF APPROPRIATIONS.—In ad-  
23 dition to amounts appropriated under section 12(c), there  
24 are authorized to be appropriated, out of funds otherwise  
25 authorized to be appropriated to the National Science

1 Foundation, \$7,700,000 for fiscal year 2000 for the Net-  
2 work for Earthquake Engineering Simulation. In addition  
3 to amounts appropriated under section 12(c), there are  
4 authorized to be appropriated to the National Science  
5 Foundation for the Network for Earthquake Engineering  
6 Simulation—

7 “(1) \$28,200,000 for fiscal year 2001;

8 “(2) \$24,400,000 for fiscal year 2002;

9 “(3) \$4,500,000 for fiscal year 2003; and

10 “(4) \$17,000,000 for fiscal year 2004.”.

11 **SEC. 6. SCIENTIFIC EARTHQUAKE STUDIES ADVISORY COM-**

12 **MITTEE.**

13 (a) **ESTABLISHMENT.**—The Director of the United  
14 States Geological Survey shall establish a Scientific Earth-  
15 quake Studies Advisory Committee.

16 (b) **ORGANIZATION.**—The Director shall establish  
17 procedures for selection of individuals not employed by the  
18 Federal Government who are qualified in the seismic  
19 sciences and other appropriate fields and may, pursuant  
20 to such procedures, select up to ten individuals, one of  
21 whom shall be designated Chairman, to serve on the Advi-  
22 sory Committee. Selection of individuals for the Advisory  
23 Committee shall be based solely on established records of  
24 distinguished service, and the Director shall ensure that  
25 a reasonable cross-section of views and expertise is rep-

1 resented. In selecting individuals to serve on the Advisory  
2 Committee, the Director shall seek and give due consider-  
3 ation to recommendations from the National Academy of  
4 Sciences, professional societies, and other appropriate or-  
5 ganizations.

6 (c) MEETINGS.—The Advisory Committee shall meet  
7 at such times and places as may be designated by the  
8 Chairman in consultation with the Director.

9 (d) DUTIES.—The Advisory Committee shall advise  
10 the Director on matters relating to the United States Geo-  
11 logical Survey's participation in the National Earthquake  
12 Hazards Reduction Program, including the United States  
13 Geological Survey's roles, goals, and objectives within that  
14 Program, its capabilities and research needs, guidance on  
15 achieving major objectives, and establishing and meas-  
16 uring performance goals. The Advisory Committee shall  
17 issue an annual report to the Director for submission to  
18 Congress on or before September 30 of each year. The  
19 report shall describe the Advisory Committee's activities  
20 and address policy issues or matters that affect the United  
21 States Geological Survey's participation in the National  
22 Earthquake Hazards Reduction Program.

23 **SEC. 7. BUDGET COORDINATION.**

24 Section 5 of the Earthquake Hazards Reduction Act  
25 of 1977 (42 U.S.C. 7704) is amended—

1 (1) in subsection (b)(1)—

2 (A) by striking subparagraph (A) and re-  
3 designating subparagraphs (B) through (F) as  
4 subparagraphs (A) through (E), respectively;  
5 and

6 (B) by moving subparagraph (E), as so re-  
7 designated by subparagraph (A) of this para-  
8 graph, so as to appear immediately after sub-  
9 paragraph (D), as so redesignated; and

10 (2) by adding at the end the following new sub-  
11 section:

12 “(c) BUDGET COORDINATION.—

13 “(1) GUIDANCE.—The Agency shall each year  
14 provide guidance to the other Program agencies con-  
15 cerning the preparation of requests for appropria-  
16 tions for activities related to the Program, and shall  
17 prepare, in conjunction with the other Program  
18 agencies, an annual Program budget to be submitted  
19 to the Office of Management and Budget.

20 “(2) REPORTS.—Each Program agency shall  
21 include with its annual request for appropriations  
22 submitted to the Office of Management and Budget  
23 a report that—

24 “(A) identifies each element of the pro-  
25 posed Program activities of the agency;

1           “(B) specifies how each of these activities  
2           contributes to the Program; and

3           “(C) states the portion of its request for  
4           appropriations allocated to each element of the  
5           Program.”.

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