

Calendar No. 249

119TH CONGRESS
1ST SESSION**S. 1626****[Report No. 119–92]**

To reauthorize the National Landslide Preparedness Act, and for other purposes.

IN THE SENATE OF THE UNITED STATES

MAY 6, 2025

Ms. MURKOWSKI (for herself and Ms. CANTWELL) introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

NOVEMBER 3, 2025

Reported by Mr. CRUZ, with an amendment

[Omit the part struck through and insert the part printed in *italie*]**A BILL**

To reauthorize the National Landslide Preparedness Act,
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 Landslide
5 Preparedness Act Reauthorization Act of 2025”.

1 **SEC. 2. CERTAIN DEFINITIONS UNDER FLOOD LEVEL OB-**
2 **SERVATION, OPERATIONS, AND DECISION**
3 **SUPPORT ACT.**

4 (a) DEFINITIONS.—Section 12(a) of the Flood Level
5 Observation, Operations, and Decision Support Act (15
6 U.S.C. 9707(a)) is amended—

7 (1) by redesignating paragraphs (1) and (2) as
8 paragraphs (4) and (5), respectively; and

9 (2) by inserting before paragraph (4) (as so re-
10 designated) the following:

11 “(1) ATMOSPHERIC RIVER.—The term ‘atmos-
12 pheric river’ means a transient corridor of strong
13 water vapor in the atmosphere that—

14 “(A) produces significant quantities of rain
15 or snow; and

16 “(B) may be primarily beneficial to the
17 water supply or hazardous due to flooding.

18 “(2) ATMOSPHERIC RIVER FLOODING EVENT.—
19 The term ‘atmospheric river flooding event’ means
20 an atmospheric river that—

21 “(A) results in flooding of rivers and
22 streams or other hazards to human life, prop-
23 erty, or the economy; and

24 “(B) is of particular concern to human
25 health, property, and the economy, as deter-
26 mined by the Secretary of Commerce.

1 “(3) EXTREME PRECIPITATION EVENT.—The
2 term ‘extreme precipitation event’ means precipita-
3 tion quantities exceeding the 5-year annual recur-
4 rence interval for a specific location.”.

5 (b) REQUIREMENTS.—Section 12(d)(1) of the Flood
6 Level Observation, Operations, and Decision Support Act
7 (15 U.S.C. 9707(d)(1)) is amended by inserting “, such
8 as precipitation resulting from hurricanes, atmospheric
9 river flooding events, and extreme precipitation events”
10 before the period at the end.

11 **SEC. 3. REAUTHORIZATION OF NATIONAL LANDSLIDE PRE-**
12 **PAREDNESS ACT.**

13 (a) DEFINITIONS.—Section 2 of the National Land-
14 slide Preparedness Act (43 U.S.C. 3101) is amended—

15 (1) by redesignating paragraphs (4) through
16 (11) as paragraphs (7), (8), (10), (11), (13), (14),
17 (15), and (16), respectively;

18 (2) by inserting after paragraph (3) the fol-
19 lowing:

20 “(4) ATMOSPHERIC RIVER.—The term ‘atmos-
21 pheric river’ has the meaning given the term in sec-
22 tion 12(a) of the Flood Level Observation, Oper-
23 ations, and Decision Support Act (15 U.S.C.
24 9707(a)).

1 ~~“(5) ATMOSPHERIC RIVER FLOODING EVENT.—~~

2 The term ‘atmospheric river flooding event’ has the
3 meaning given the term in section 12(a) of the
4 Flood Level Observation, Operations, and Decision
5 Support Act (15 U.S.C. 9707(a)).

6 ~~“(6) EXTREME PRECIPITATION EVENT.—The~~
7 term ‘extreme precipitation event’ has the meaning
8 given the term in section 12(a) of the Flood Level
9 Observation, Operations, and Decision Support Act
10 ~~(15 U.S.C. 9707(a)).”;~~

11 (3) by inserting after paragraph (8), as so re-
12 designated, the following:

13 ~~“(9) INSTITUTION OF HIGHER EDUCATION.—~~
14 The term ‘institution of higher education’ has the
15 meaning given the term in section 101(a) of the
16 Higher Education Act of 1965 (20 U.S.C.
17 1001(a)).”;

18 (4) by inserting after paragraph (11), as so re-
19 designated, the following:

20 ~~“(12) NATIVE HAWAIIAN ORGANIZATION.—The~~
21 term ‘Native Hawaiian organization’ has the mean-
22 ing given the term in section 6207 of the Elemen-
23 tary and Secondary Education Act of 1965 (20
24 U.S.C. 7517), except that the term includes the De-

partment of Hawaiian Home Lands and the Office
of Hawaiian Affairs.”; and

(5) by adding at the end the following:

“(17) TRIBAL ORGANIZATION.—The term ‘Tribal organization’ has the meaning given the term in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 5304).”.

(b) NATIONAL LANDSLIDE HAZARDS REDUCTION
PROGRAM.—

(1) ESTABLISHMENT.—Section 3(a)(3) of the National Landslide Preparedness Act (43 U.S.C. 3102(a)(3)) is amended by striking “protect” and inserting “contribute to protecting”.

(2) PROGRAM ACTIVITIES.—Section 3(b)(1)(C)(ii) of the National Landslide Preparedness Act (43 U.S.C. 3102(b)(1)(C)(ii)) is amended by striking “implement” and inserting “disseminate”.

(3) NATIONAL STRATEGY.—Section 3(b)(2) of the National Landslide Preparedness Act (43 U.S.C. 3102(b)(2)) is amended—

(A) by redesignating subparagraphs (A) through (C) as clauses (i) through (iii), respectively; and indenting appropriately;

(B) in the matter preceding clause (i) (as so redesignated), by striking “Not later than” and inserting the following:

“(A) IN GENERAL.—Not later than”; and
(C) by adding at the end the following:

“(B) ASSESSMENT.—For purposes of the first national strategy published after the date of enactment of the National Landslide Preparedness Act Reauthorization Act of 2025 under subparagraph (A), the Secretary, in consultation with the Secretary of Commerce, shall include an assessment of the risks that atmospheric river flooding events and extreme precipitation events pose to the safety of life and property in the United States with respect to landslide hazards.”.

(4) NATIONAL LANDSLIDE HAZARDS DATABASE.—Section 3(b)(3) of the National Landslide Preparedness Act (43 U.S.C. 3102(b)(3)) is amended—

(A) by redesignating subparagraphs (C) and (D) as subparagraphs (D) and (E), respectively; and

(B) by inserting after subparagraph (B) the following:

1 “(C) the identification of areas in need of
2 additional hazard risk assessment, including
3 areas that may be at risk due to—

4 “(i) hydrology or changes in hydrology
5 that may include erosion, drought, or other
6 characteristics that could impact landslide
7 risk;

8 “(ii) atmospheric river flooding events
9 and extreme precipitation events, as identi-
10 fied by the Secretary of Commerce and the
11 Secretary;

12 “(iii) geologic activity, such as vol-
13 canic eruptions, earthquakes, or tsunamis;
14 or

15 “(iv) data-poor areas or hazards with
16 poor monitoring that could contribute to
17 increased landslide risk.”.

18 ~~(5) LANDSLIDE HAZARD AND RISK PREPARED-~~
19 ~~NESS FOR COMMUNITIES.—~~Section 3(b)(4) of the
20 National Landslide Preparedness Act (43 U.S.C.
21 3102(b)(4)) is amended—

22 ~~(A)~~ in the matter preceding subparagraph
23 ~~(A)~~, by inserting “Native Hawaiian organiza-
24 tions and other stakeholders, as appropriate,”
25 before “and Indian tribes”;

(B) in subparagraph (A)—

(i) in the matter preceding clause (i), by striking “local, and Tribal governments and decisionmakers” and inserting “and local governments, Indian tribes, Tribal organizations, Native Hawaiian organizations, and other decisionmakers”;

(ii) by striking clause (iii) and inserting the following:

“(iii) health and safety with respect to landslides;”;

(iii) by redesignating clause (iv) as clause (v); and

(iv) by inserting after clause (iii) the following:

“(iv) reducing losses from landslides, including the threats caused by atmospheric rivers and other extreme precipitation events; and”;

(C) in subparagraph (B)—

(i) in clause (i), by striking “local, and Tribal officials” and inserting “and local officials, Indian tribes, Tribal organizations, and Native Hawaiian organizations”; and

(ii) in clause (ii), by striking “local, and Tribal emergency managers” and inserting “and local emergency managers and emergency managers of Indian tribes, Tribal organizations, and Native Hawaiian organizations”.

(6) ~~DEBRIS FLOW EARLY WARNING SYSTEM.—~~

Section 3(b)(5) of the National Landslide Preparedness Act (43 U.S.C. 3102(b)(5)) is amended—

(A) in subparagraph (B), by striking “State, territorial, local, and Tribal governments” and inserting “State, territorial, and local governments, Indian tribes, Tribal organizations, and Native Hawaiian organizations”;

(B) by redesignating subparagraphs (A) through (C) as clauses (i) through (iii), respectively, and indenting appropriately;

(C) in the matter preceding clause (i) (as so redesignated), by striking “In carrying out” and inserting the following:

“(A) ~~IN GENERAL.—~~In carrying out”; and

(D) by adding at the end the following:

“(B) ~~CONSULTATION.—~~In carrying out subparagraph (A), the Secretary may consult with an institution of higher education de-

scribed in subsection (d)(2)(B)(iv) and other stakeholders to establish and support emergency response procedures, as appropriate.”.

(7) EMERGENCY RESPONSE ACTIVITIES.—Section 3(b)(6) of the National Landslide Preparedness Act (43 U.S.C. 3102(b)(6)) is amended—

(A) by redesignating subparagraphs (A) through (C) as clauses (i) through (iii), respectively, and indenting appropriately;

(B) in the matter preceding clause (i) (as so redesignated), by striking “In carrying” and inserting the following:

“(A) IN GENERAL.—In carrying”;

(C) in subparagraph (A) (as so designated)—

(i) in the matter preceding clause (i) (as so redesignated), by inserting “Native Hawaiian organizations,” before “and Indian tribes”;

(ii) in clause (ii) (as so redesignated), by striking “and” at the end;

(iii) in clause (iii) (as so redesignated), by striking the period at the end and inserting “; and”; and

1 (iv) by adding at the end the fol-
2 lowing:

3 “(iv) to improve real-time risk man-
4 agement during landslide events, including
5 with respect to landslide events caused
6 by—

7 “(I) hydrology or changes in hy-
8 drology that may include erosion,
9 drought, or other characteristics that
10 could impact landslide risk;

11 “(II) atmospheric river flooding
12 events and extreme precipitation
13 events, as identified by the Secretary
14 of Commerce and the Secretary;

15 “(III) geologic activity, such as
16 volcanic eruptions, earthquakes, or
17 tsunamis;

18 “(IV) data-poor areas or hazards
19 with poor monitoring that could con-
20 tribute to increased landslide risk; or

21 “(V) thawing permafrost and gla-
22 cial retreat causing destabilization of
23 slopes.”; and

24 (D) by adding at the end the following:

1 “(B) CONSULTATION.—In carrying out
2 subparagraph (A), the Secretary may consult
3 with an institution of higher education de-
4 scribed in subsection (d)(2)(B)(iv) and the pri-
5 vate sector.”.

6 (8) INTERAGENCY COORDINATING COMMITTEE
7 ON LANDSLIDE HAZARDS.—Section 3(e)(2) of the
8 National Landslide Preparedness Act (43 U.S.C.
9 3102(e)(2)) is amended by adding at the end the fol-
10 lowing:

11 “(J) The Administrator of the National
12 Aeronautics and Space Administration.”.

13 (9) ADVISORY COMMITTEE.—Section 3(d)(2)(B)
14 of the National Landslide Preparedness Act (43
15 U.S.C. 3102(d)(2)(B)) is amended—

16 (A) in clause (iii), by striking “geological”;
17 and

18 (B) in clause (vi), by striking “local, and
19 Tribal emergency management agencies” and
20 inserting “and local emergency management
21 agencies and emergency management agencies
22 of Indian tribes and Native Hawaiian organiza-
23 tions”.

1 ~~(10) REGIONAL PARTNERSHIPS.—~~Section 3 of
 2 the National Landslide Preparedness Act (~~43 U.S.C.~~
 3 ~~3102~~) is amended—

4 (A) by redesignating subsections (e)
 5 through (i) as subsections (f) through (j), re-
 6 spectively; and

7 (B) by inserting after subsection (d) the
 8 following:

9 ~~“(e) REGIONAL PARTNERSHIPS.—~~

10 ~~“(1) IN GENERAL.—~~As soon as practicable
 11 after the date of enactment of the National Land-
 12 slide Preparedness Act Reauthorization Act of 2025,
 13 the Secretary shall establish in the State of Alaska
 14 and other regions, as the Secretary determines to be
 15 appropriate, a regional partnership with an eligible
 16 partner described in paragraph (2).

17 ~~“(2) ELIGIBLE PARTNERS.—~~An organization or
 18 institution of higher education with expertise in
 19 landslide mapping, research, and monitoring shall be
 20 eligible for a regional partnership under paragraph
 21 (1).

22 ~~“(3) PURPOSES AND DUTIES.—~~A regional part-
 23 nership established under paragraph (1) shall—

24 (A) allow the Secretary to leverage appli-
 25 cable expertise in regional organizations;

1 “(B) coordinate long-term landslide re-
2 search specific to the applicable region; and

3 “(C) align interagency landslide moni-
4 toring efforts.”.

5 (11) GRANT PROGRAMS.—Section 3 of the Na-
6 tional Landslide Preparedness Act (43 U.S.C. 3102)
7 is amended, in paragraph (1) of subsection (f) (as
8 so redesignated)—

9 (A) in subparagraph (A)(i), by striking
10 “local, and Tribal governments to research,
11 map, assess” and inserting “and local govern-
12 ments, Indian tribes, Tribal organizations, and
13 Native Hawaiian organizations to research,
14 map, assess, monitor”;

15 (B) in subparagraph (B)—

16 (i) in clause (i), by inserting “institu-
17 tions of higher education described in sub-
18 section (d)(2)(B)(iv),” before “and Indian
19 tribes”; and

20 (ii) in clause (ii)—

21 (I) by redesignating subclauses
22 (II) through (IV) as subclauses (III)
23 through (V), respectively; and

24 (II) by inserting after subclause
25 (I) the following:

1 “(H) in regions that have re-
 2 cently experienced loss of life due to
 3 landslides;” and

4 (C) in subparagraph (C)—

5 (i) in clause (i), by inserting “award-
 6 ed” after “grants”; and

7 (ii) in clause (ii), by striking “made”
 8 and inserting “or other accomplishments
 9 resulting”.

10 (12) SIGNIFICANT EVENTS.—Section 3 of the
 11 National Landslide Preparedness Act (43 U.S.C.
 12 3102) is amended, in subsection (h)(3) (as so redes-
 13 ignated), by striking “local, and Tribal partners”
 14 and inserting “and local partners, Indian tribes,
 15 Tribal organizations, and Native Hawaiian organiza-
 16 tions”.

17 (13) FUNDING.—Section 3 of the National
 18 Landslide Preparedness Act (43 U.S.C. 3102) is
 19 amended, in subsection (i) (as so redesignated)—

20 (A) in the matter preceding paragraph (1),
 21 by striking “2024” and inserting “2030”; and

22 (B) in paragraph (1), by striking “there is
 23 authorized to be appropriated to the United
 24 States Geological Survey, \$25,000,000 to carry
 25 out this section” and inserting “from amounts

appropriated or otherwise made available to the United States Geological Survey, \$35,000,000 shall be used to carry out this section, of which not less than \$10,000,000 shall be used for the purchase, deployment, and repair of landslide early warning systems in high risk areas”.

~~(c) 3D ELEVATION PROGRAM.—~~

~~(1) ESTABLISHMENT.—Section 5(a) of the National Landslide Preparedness Act (43 U.S.C. 3104(a)) is amended—~~

~~(A) in paragraph (1)(A), by inserting “and derivative” after “3D elevation”; and~~

~~(B) in paragraph (2)(B)(i), by inserting “, process, and integrate” after “acquire”.~~

~~(2) 3D ELEVATION FEDERAL INTERAGENCY COORDINATING COMMITTEE.—Section 5(b)(3) of the National Landslide Preparedness Act (43 U.S.C. 3104(b)(3)) is amended—~~

~~(A) by redesignating subparagraphs (D) and (E) as subparagraphs (E) and (F), respectively; and~~

~~(B) by inserting after subparagraph (C) the following:~~

~~“(D) the 3D Hydrography Program Working Group;”.~~

1 ~~(3)~~ GRANTS AND COOPERATIVE AGREE-
 2 MENTS.—Section 5(d)~~(3)~~ of the National Landslide
 3 Preparedness Act ~~(43 U.S.C. 3104(d)(3))~~ is amend-
 4 ed by striking “publically” and inserting “publicly”.

5 ~~(4)~~ FUNDING.—Section 5(e) of the National
 6 Landslide Preparedness Act ~~(43 U.S.C. 3104(e))~~ is
 7 amended by striking “2024” and inserting “2030”.

8 **SEC. 3. REAUTHORIZATION OF NATIONAL LANDSLIDE PRE-**
 9 **PAREDNESS ACT.**

10 (a) *DEFINITIONS.*—Section 2 of the National Land-
 11 slide Preparedness Act (43 U.S.C. 3101) is amended—

12 (1) by redesignating paragraphs (4) through (11)
 13 as paragraphs (7), (8), (10), (11), (13), (14), (15),
 14 and (16), respectively;

15 (2) by inserting after paragraph (3) the fol-
 16 lowing:

17 “(4) *ATMOSPHERIC RIVER.*—The term ‘atmos-
 18 pheric river’ has the meaning given the term in sec-
 19 tion 12(a) of the Flood Level Observation, Operations,
 20 and Decision Support Act (15 U.S.C. 9707(a)).

21 “(5) *ATMOSPHERIC RIVER FLOODING EVENT.*—
 22 The term ‘atmospheric river flooding event’ has the
 23 meaning given the term in section 12(a) of the Flood
 24 Level Observation, Operations, and Decision Support
 25 Act (15 U.S.C. 9707(a)).

1 “(6) *EXTREME PRECIPITATION EVENT.*—*The*
 2 *term ‘extreme precipitation event’ has the meaning*
 3 *given the term in section 12(a) of the Flood Level Ob-*
 4 *servation, Operations, and Decision Support Act (15*
 5 *U.S.C. 9707(a)).’;*

6 (3) *by inserting after paragraph (8) (as so redes-*
 7 *ignated) the following:*

8 “(9) *INSTITUTION OF HIGHER EDUCATION.*—*The*
 9 *term ‘institution of higher education’ has the meaning*
 10 *given the term in section 101(a) of the Higher Edu-*
 11 *cation Act of 1965 (20 U.S.C. 1001(a)).’;*

12 (4) *by inserting after paragraph (11) (as so re-*
 13 *designated) the following:*

14 “(12) *NATIVE HAWAIIAN ORGANIZATION.*—*The*
 15 *term ‘Native Hawaiian organization’ has the mean-*
 16 *ing given the term in section 6207 of the Elementary*
 17 *and Secondary Education Act of 1965 (20 U.S.C.*
 18 *7517), except that the term includes the Department*
 19 *of Hawaiian Home Lands and the Office of Hawai-*
 20 *ian Affairs.’; and*

21 (5) *by adding at the end the following:*

22 “(17) *TRIBAL ORGANIZATION.*—*The term ‘Tribal*
 23 *organization’ has the meaning given the term in sec-*
 24 *tion 4 of the Indian Self-Determination and Edu-*
 25 *cation Assistance Act (25 U.S.C. 5304).’.*

1 (b) *NATIONAL LANDSLIDE HAZARDS REDUCTION PRO-*
 2 *GRAM.*—

3 (1) *ESTABLISHMENT.*—Section 3(a)(3) of the Na-
 4 *tional Landslide Preparedness Act* (43 U.S.C.
 5 3102(a)(3)) is amended by striking “protect” and in-
 6 serting “contribute to protecting”.

7 (2) *PROGRAM ACTIVITIES.*—Section
 8 3(b)(1)(C)(ii) of the *National Landslide Preparedness*
 9 *Act* (43 U.S.C. 3102(b)(1)(C)(ii)) is amended by
 10 striking “implement” and inserting “disseminate”.

11 (3) *NATIONAL STRATEGY.*—Section 3(b)(2) of the
 12 *National Landslide Preparedness Act* (43 U.S.C.
 13 3102(b)(2)) is amended—

14 (A) by redesignating subparagraphs (A)
 15 through (C) as clauses (i) through (iii), respec-
 16 tively, and indenting appropriately;

17 (B) in the matter preceding clause (i) (as so
 18 redesignated), by striking “Not later than” and
 19 inserting the following:

20 “(A) *IN GENERAL.*—Not later than”; and

21 (C) by adding at the end the following:

22 “(B) *ASSESSMENT.*—For purposes of the
 23 *first national strategy published after the date of*
 24 *enactment of the National Landslide Prepared-*
 25 *ness Act Reauthorization Act of 2025 under sub-*

paragraph (A), the Secretary, in consultation with the Secretary of Commerce, shall include an assessment of the risks that atmospheric river flooding events and extreme precipitation events pose to the safety of life and property in the United States with respect to landslide hazards.”.

(4) NATIONAL LANDSLIDE HAZARDS DATABASE.—Section 3(b)(3) of the National Landslide Preparedness Act (43 U.S.C. 3102(b)(3)) is amended—

(A) by redesignating subparagraphs (C) and (D) as subparagraphs (D) and (E), respectively; and

(B) by inserting after subparagraph (B) the following:

“(C) the identification of areas in need of additional hazard risk assessment, including areas that may be at risk due to—

“(i) hydrology or changes in hydrology that may include erosion, drought, or other characteristics that could impact landslide risk;

“(ii) atmospheric river flooding events and extreme precipitation events, as identi-

1 *fied by the Secretary of Commerce and the*
 2 *Secretary;*

3 *“(iii) geologic activity, such as vol-*
 4 *canic eruptions, earthquakes, or tsunamis;*
 5 *or*

6 *“(iv) data-poor areas or hazards with*
 7 *poor monitoring that could contribute to in-*
 8 *creased landslide risk;”.*

9 *(5) LANDSLIDE HAZARD AND RISK PREPARED-*
 10 *NESS FOR COMMUNITIES.—Section 3(b)(4) of the Na-*
 11 *tional Landslide Preparedness Act (43 U.S.C.*
 12 *3102(b)(4)) is amended—*

13 *(A) in the matter preceding subparagraph*
 14 *(A), by inserting “Native Hawaiian organiza-*
 15 *tions and other stakeholders, as appropriate,” be-*
 16 *fore “and Indian tribes”;*

17 *(B) in subparagraph (A)—*

18 *(i) in the matter preceding clause (i),*
 19 *by striking “local, and Tribal governments*
 20 *and decisionmakers” and inserting “and*
 21 *local governments, Indian tribes, Tribal or-*
 22 *ganizations, Native Hawaiian organiza-*
 23 *tions, and other decisionmakers”;*

24 *(ii) by striking clause (iii) and insert-*
 25 *ing the following:*

1 “(iii) health and safety with respect to
2 landslides;”;

3 (iii) by redesignating clause (iv) as
4 clause (v); and

5 (iv) by inserting after clause (iii) the
6 following:

7 “(iv) reducing losses from landslides,
8 including the threats caused by atmospheric
9 rivers and other extreme precipitation
10 events; and”; and

11 (C) in subparagraph (B)—

12 (i) in clause (i), by striking “local, and
13 Tribal officials” and inserting “and local
14 officials, Indian tribes, Tribal organiza-
15 tions, and Native Hawaiian organizations”;
16 and

17 (ii) in clause (ii), by striking “local,
18 and Tribal emergency managers” and in-
19 serting “and local emergency managers and
20 emergency managers of Indian tribes, Trib-
21 al organizations, and Native Hawaiian or-
22 ganizations”.

23 (6) *DEBRIS FLOW EARLY WARNING SYSTEM.*—
24 Section 3(b)(5) of the National Landslide Prepared-
25 ness Act (43 U.S.C. 3102(b)(5)) is amended—

1 (A) in subparagraph (B), by striking
 2 “State, territorial, local, and Tribal govern-
 3 ments” and inserting “State, territorial, and
 4 local governments, Indian tribes, Tribal organi-
 5 zations, and Native Hawaiian organizations”;

6 (B) by redesignating subparagraphs (A)
 7 through (C) as clauses (i) through (iii), respec-
 8 tively, and indenting appropriately;

9 (C) in the matter preceding clause (i) (as so
 10 redesignated), by striking “In carrying out” and
 11 inserting the following:

12 “(A) *IN GENERAL.*—In carrying out”; and

13 (D) by adding at the end the following:

14 “(B) *CONSULTATION.*—In carrying out sub-
 15 paragraph (A), the Secretary may consult with
 16 an institution of higher education described in
 17 subsection (d)(2)(B)(iv) and other stakeholders to
 18 establish and support emergency response proce-
 19 dures, as appropriate.”.

20 (7) *EMERGENCY RESPONSE ACTIVITIES.*—Section
 21 3(b)(6) of the National Landslide Preparedness Act
 22 (43 U.S.C. 3102(b)(6)) is amended—

23 (A) by redesignating subparagraphs (A)
 24 through (C) as clauses (i) through (iii), respec-
 25 tively, and indenting appropriately;

1 (B) *in the matter preceding clause (i) (as so*
 2 *redesignated), by striking “In carrying” and in-*
 3 *serting the following:*

4 “(A) *IN GENERAL.—In carrying*”;

5 (C) *in subparagraph (A) (as so des-*
 6 *ignated)—*

7 (i) *in the matter preceding clause (i)*
 8 *(as so redesignated), by inserting “Native*
 9 *Hawaiian organizations,” before “and In-*
 10 *dian tribes”;*

11 (ii) *in clause (ii) (as so redesignated),*
 12 *by striking “and” at the end;*

13 (iii) *in clause (iii) (as so redesign-*
 14 *ated), by striking the period at the end*
 15 *and inserting “; and”; and*

16 (iv) *by adding at the end the following:*

17 “(iv) *to improve real-time risk man-*
 18 *agement during landslide events, including*
 19 *with respect to landslide events caused by—*

20 “(I) *hydrology or changes in hy-*
 21 *drology that may include erosion,*
 22 *drought, or other characteristics that*
 23 *could impact landslide risk;*

24 “(II) *atmospheric river flooding*
 25 *events and extreme precipitation*

1 events, as identified by the Secretary of
2 Commerce and the Secretary;

3 “(III) geologic activity, such as
4 volcanic eruptions, earthquakes, or
5 tsunamis;

6 “(IV) data-poor areas or hazards
7 with poor monitoring that could con-
8 tribute to increased landslide risk; or

9 “(V) thawing permafrost and gla-
10 cial retreat causing destabilization of
11 slopes.”; and

12 (D) by adding at the end the following:

13 “(B) CONSULTATION.—In carrying out sub-
14 paragraph (A), the Secretary may consult with
15 an institution of higher education described in
16 subsection (d)(2)(B)(iv) and the private sector.”.

17 (8) ADVISORY COMMITTEE.—Section 3(d)(2)(B)
18 of the National Landslide Preparedness Act (43
19 U.S.C. 3102(d)(2)(B)) is amended—

20 (A) in clause (iii), by striking “geological”;
21 and

22 (B) in clause (vi), by striking “local, and
23 Tribal emergency management agencies” and in-
24 serting “and local emergency management agen-
25 cies and emergency management agencies of In-

1 *dian tribes and Native Hawaiian organiza-*
 2 *tions”.*

3 (9) *REGIONAL PARTNERSHIPS.*—*Section 3 of the*
 4 *National Landslide Preparedness Act (43 U.S.C.*
 5 *3102) is amended—*

6 (A) *by redesignating subsections (e) through*
 7 (i) *as subsections (f) through (j), respectively;*
 8 *and*

9 (B) *by inserting after subsection (d) the fol-*
 10 *lowing:*

11 “(e) *REGIONAL PARTNERSHIPS.*—

12 “(1) *IN GENERAL.*—*As soon as practicable after*
 13 *the date of enactment of the National Landslide Pre-*
 14 *paredness Act Reauthorization Act of 2025, the Sec-*
 15 *retary shall establish in each region in which the Sec-*
 16 *retary determines that there is a high landslide haz-*
 17 *ard a regional partnership with an eligible partner*
 18 *described in paragraph (2).*

19 “(2) *ELIGIBLE PARTNERS.*—*An organization or*
 20 *institution of higher education with expertise in land-*
 21 *slide mapping, research, and monitoring shall be eli-*
 22 *gible for a regional partnership under paragraph (1).*

23 “(3) *PURPOSES AND DUTIES.*—*A regional part-*
 24 *nership established under paragraph (1) shall—*

1 “(A) allow the Secretary to leverage appli-
2 cable expertise in regional organizations;

3 “(B) coordinate long-term landslide re-
4 search specific to the applicable region; and

5 “(C) align interagency landslide monitoring
6 efforts.”.

7 (10) GRANT PROGRAMS.—Section 3 of the Na-
8 tional Landslide Preparedness Act (43 U.S.C. 3102)
9 is amended, in paragraph (1) of subsection (f) (as re-
10 designated by paragraph (9)(A))—

11 (A) in subparagraph (A)(i), by striking
12 “local, and Tribal governments to research, map,
13 assess” and inserting “and local governments,
14 Indian tribes, Tribal organizations, and Native
15 Hawaiian organizations to research, map, assess,
16 monitor”;

17 (B) in subparagraph (B)—

18 (i) in clause (i), by inserting “institu-
19 tions of higher education described in sub-
20 section (d)(2)(B)(iv),” before “and Indian
21 tribes”; and

22 (ii) in clause (ii)—

23 (I) by redesignating subclauses
24 (II) through (IV) as subclauses (III)
25 through (V), respectively; and

1 (II) by inserting after subclause
2 (I) the following:

3 “(II) in regions that have recently
4 experienced loss of life due to land-
5 slides;”; and

6 (C) in subparagraph (C)—

7 (i) in clause (i), by inserting “award-
8 ed” after “grants”; and

9 (ii) in clause (ii), by striking “made”
10 and inserting “or other accomplishments re-
11 sulting”.

12 (11) *SIGNIFICANT EVENTS*.—Section 3 of the Na-
13 tional Landslide Preparedness Act (43 U.S.C. 3102)
14 is amended, in subsection (h)(3) (as so redesignated),
15 by striking “local, and Tribal partners” and insert-
16 ing “and local partners, Indian tribes, Tribal organi-
17 zations, and Native Hawaiian organizations”.

18 (12) *FUNDING*.—Section 3 of the National Land-
19 slide Preparedness Act (43 U.S.C. 3102) is amended,
20 in subsection (i) (as redesignated by paragraph
21 (9)(A))—

22 (A) in the matter preceding paragraph (1),
23 by striking “2024” and inserting “2030”; and

24 (B) in paragraph (1), by striking
25 “\$25,000,000 to carry out this section” and in-

serting “\$35,000,000 to carry out this section, of which not less than \$10,000,000 shall be made available for the purchase, deployment, and repair of landslide early warning systems in high risk areas”.

(c) *3D ELEVATION PROGRAM*.—

(1) *ESTABLISHMENT*.—Section 5(a) of the National Landslide Preparedness Act (43 U.S.C. 3104(a)) is amended—

(A) in paragraph (1)(A), by inserting “and derivative” after “3D elevation”; and

(B) in paragraph (2)(B)(i), by inserting “, process, and integrate” after “acquire”.

(2) *3D ELEVATION FEDERAL INTERAGENCY COORDINATING COMMITTEE*.—Section 5(b)(3) of the National Landslide Preparedness Act (43 U.S.C. 3104(b)(3)) is amended—

(A) by redesignating subparagraphs (D) and (E) as subparagraphs (E) and (F), respectively; and

(B) by inserting after subparagraph (C) the following:

“(D) the 3D Hydrography Program Working Group;”.

1 (3) *GRANTS AND COOPERATIVE AGREEMENTS.*—
 2 *Section 5(d)(3) of the National Landslide Prepared-*
 3 *ness Act (43 U.S.C. 3104(d)(3)) is amended by strik-*
 4 *ing “publically” and inserting “publicly”.*

5 (4) *FUNDING.*—*Section 5(e) of the National*
 6 *Landslide Preparedness Act (43 U.S.C. 3104(e)) is*
 7 *amended by striking “2024” and inserting “2034”.*

8 **SEC. 4. NEXT GENERATION WATER OBSERVING SYSTEM.**

9 *The Act of December 24, 1942 (56 Stat. 1086, chapter*
 10 *822; 43 U.S.C. 36b), is amended—*

11 (1) *in the first section, by striking “That the*
 12 *Secretary of the Interior” and inserting the following:*

13 **“SECTION 1. GAGING STREAMS AND UNDERGROUND WATER**
 14 **RESOURCES.**

15 *“The Secretary of the Interior (referred to in this Act*
 16 *as the ‘Secretary’);*

17 (2) *in section 1 (as so designated)—*

18 (A) *in the second sentence, by striking “of*
 19 *the Interior”; and*

20 (B) *in the proviso—*

21 (i) *by striking “this Act” each place it*
 22 *appears and inserting “this section”; and*

23 (ii) *by striking “of the Interior”; and*

24 (3) *by adding at the end the following:*

1 **“SEC. 2. NEXT GENERATION WATER OBSERVING SYSTEM.**

2 “(a) *ESTABLISHMENT.*—*The Secretary shall establish*
 3 *within the United States Geological Survey a system, to*
 4 *be known as the ‘Next Generation Water Observing System’*
 5 *(referred to in this section as the ‘System’).*

6 “(b) *PURPOSE.*—*The purpose of the System is to pro-*
 7 *vide real-time data on water quantity and quality—*

8 “(1) *that, as compared to previous systems, is*
 9 *more affordable, more rapid, and available in more*
 10 *locations; and*

11 “(2) *to support advanced modeling tools—*

12 “(A) *to provide state-of-the-art flood and*
 13 *drought forecasts;*

14 “(B) *to inform emergency- and water-man-*
 15 *agement decision support systems; and*

16 “(C) *to help evaluate—*

17 “(i) *the near-term and long-term risks*
 18 *of floods and droughts, including any sce-*
 19 *narios that modify those risks;*

20 “(ii) *the quantity of water stored in*
 21 *seasonal snow packs, and how changes in*
 22 *seasonal snow packs affect water supplies;*

23 “(iii) *the early stages of drought;*

24 “(iv) *the predicted timelines for*
 25 *drought recovery;*

1 “(v) the quantity of water lost to
2 evapotranspiration;

3 “(vi) water quality differences during
4 wet and dry periods;

5 “(vii) the effects of streamflow on
6 groundwater;

7 “(viii) the effects of groundwater on
8 streamflow; and

9 “(ix) ice and water volume stored in
10 glaciers and changing water volumes due to
11 glacial retreat.

12 “(c) *SYSTEM REQUIREMENTS.*—*The System shall pro-*
13 *vide for—*

14 “(1) *state-of-the-art measurements;*

15 “(2) *a dense array of sensors at selected sites;*

16 “(3) *increased spatial and temporal coverage;*

17 “(4) *new technology testing and implementation;*

18 “(5) *improved operational efficiency; and*

19 “(6) *modernized and timely data storage and de-*
20 *livery.*

21 “(d) *PRIORITY REGIONS.*—*In determining in which*
22 *regions of the United States Geological Survey to carry out*
23 *the System, the Secretary shall give priority to regions of*
24 *the United States Geological Survey in which there is—*

25 “(1) *a high level of drought;*

1 “(2) a reliance on reservoirs for water storage;

2 “(3) a reliance on hydrologic storage, including
3 groundwater, aquifers, and snowpack; and

4 “(4) flooding and extreme rainfall.

5 “(e) *AUTHORIZATION OF APPROPRIATIONS.*—

6 “(1) *IN GENERAL.*—There is authorized to be ap-
7 propriated to carry out this section in 10 initial ba-
8 sins, as determined by the Secretary, \$30,000,000 for
9 fiscal year 2026, to remain available until expended.

10 “(2) *DERIVATION OF FUNDS.*—Amounts made
11 available to carry out this section shall be derived
12 from amounts appropriated or otherwise made avail-
13 able to the United States Geological Survey.”.

14 **SEC. 5. WATER DATA ENHANCEMENT AND NATIONAL**
15 **GROUNDWATER RESOURCES MONITORING BY**
16 **UNITED STATES GEOLOGICAL SURVEY.**

17 Section 9507 of the Omnibus Public Land Manage-
18 ment Act of 2009 (42 U.S.C. 10367) is amended—

19 (1) in subsection (a)—

20 (A) in paragraph (2)(C)—

21 (i) in clause (i), by striking “and” at
22 the end;

23 (ii) in clause (ii), by inserting “and”
24 after the semicolon at the end; and

1 (iii) by adding at the end the fol-
2 lowing:

3 “(iii) the conduct of groundwater qual-
4 ity assessments relating to permafrost thaw
5 and changes in precipitation rates;”;

6 (B) in paragraph (4)—

7 (i) in subparagraph (A)—

8 (I) in the matter preceding clause
9 (i), by striking “10 years” and insert-
10 ing “11 years”; and

11 (II) in clause (i), by striking “na-
12 tional streamflow information pro-
13 gram” and inserting “Federal priority
14 streamgauge program”;

15 (ii) in subparagraph (B), by striking
16 “Federal Priority streamgauge program”
17 and inserting “Federal Priority Streamgauge
18 Network”; and

19 (iii) by adding at the end the fol-
20 lowing:

21 “(C) *PRIORITY SITES*.—In selecting sites for
22 the installation of streamgages under subpara-
23 graph (A), the Secretary shall give priority to re-
24 gions of the United States Geological Survey in
25 which there is—

1 “(i) a high level of drought;

2 “(ii) a reliance on reservoirs for water
3 storage;

4 “(iii) a reliance on hydrologic storage,
5 including groundwater, aquifers, and
6 snowpack; and

7 “(iv) flooding and extreme rainfall.

8 “(D) NO IMPACT ON EXISTING SITES.—The
9 priority provided under subparagraph (C) shall
10 have no impact on any site or region in which
11 a streamgage has been installed, and is oper-
12 ating, as of the date of enactment of the National
13 Landslide Preparedness Act Reauthorization Act
14 of 2025, subject to the condition that the data
15 from such a site or region are continuing to meet
16 the priority needs of stakeholders, as determined
17 by the Secretary.”; and

18 (C) in paragraph (6)—

19 (i) in subparagraph (B), by striking
20 “\$10,000,000 for each of fiscal years 2009
21 through 2028” and inserting “\$30,000,000
22 for each of fiscal years 2026 through 2033”;
23 and

24 (ii) by adding at the end the following:

“(C) *DERIVATION OF FUNDS.*—Amounts made available to carry out this subsection shall be derived from amounts appropriated or otherwise made available to the United States Geological Survey.”; and

(2) in subsection (b)—

(A) in paragraph (2)—

(i) in subparagraph (B), in the matter preceding clause (i), by striking “and State and local water resource agencies and Tribes” and inserting “, State and local water resource agencies, Indian tribes, Tribal organizations, and Native Hawaiian organizations”; and

(ii) in subparagraph (C), by striking “State water resource agency or Tribe” and inserting “State water resource agency, Indian tribe, Tribal organization, or Native Hawaiian organization”;

(B) in paragraph (6)—

(i) by striking “give priority to those activities” and inserting the following: “give priority to—

“(A) activities”;

(ii) in subparagraph (A) (as so designated)—

(I) by striking “State, a Tribe” and inserting “State, Indian tribe, Tribal organization, Native Hawaiian organization,”; and

(II) by striking the period at the end and inserting “; and”; and

(iii) by adding at the end the following:

“(B) activities conducted in regions of the United States Geological Survey in which there is—

“(i) a high level of drought;

“(ii) a reliance on reservoirs for water storage;

“(iii) a reliance on hydrologic storage, including groundwater, aquifers, and snowpack; and

“(iv) flooding and extreme rainfall.”; and

(C) in paragraph (7)—

(i) by striking “There are authorized to be appropriated” and inserting the following:

1 “(A) *IN GENERAL.*—*There is authorized to*
2 *be appropriated*”; and

3 (ii) *by adding at the end the following:*

4 “(B) *DERIVATION OF FUNDS.*—*Amounts*
5 *made available to carry out this subsection shall*
6 *be derived from amounts appropriated or other-*
7 *wise made available to the United States Geo-*
8 *logical Survey.*”.

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1ST Session

S. 1626

[Report No. 119-92]

A BILL

To reauthorize the National Landslide
Preparedness Act, and for other purposes.

NOVEMBER 3, 2025

Reported with an amendment