

119TH CONGRESS
1ST SESSION

S. 1743

To require the Under Secretary of Commerce for Oceans and Atmosphere to conduct an economic impact study of the financial costs of extreme heat, and for other purposes.

IN THE SENATE OF THE UNITED STATES

MAY 13, 2025

Mr. KELLY (for himself and Mr. GALLEG0) introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

A BILL

To require the Under Secretary of Commerce for Oceans and Atmosphere to conduct an economic impact study of the financial costs of extreme heat, 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 “Extreme Heat Eco-
5 nomic Study Act of 2025”.

1 **SEC. 2. ECONOMIC STUDY ON FINANCIAL COSTS OF EX-**
2 **TREME HEAT.**

3 (a) STUDY.—The Under Secretary, acting through
4 the Climate Program Office of the National Oceanic and
5 Atmospheric Administration and in coordination with the
6 member agencies of the National Integrated Heat Health
7 Information System, shall conduct an economic impact
8 study of the financial costs of extreme heat, including by
9 quantifying the dollar value of loss of life and property
10 specific to extreme heat.

11 (b) ELEMENTS.—The study required under sub-
12 section (a) shall—

13 (1) evaluate broad health impacts of extreme
14 heat, including mortality and morbidity, in coordina-
15 tion with State and national public health depart-
16 ments, following standard methodologies for valuing
17 health and life;

18 (2) evaluate property damage or property loss
19 from extreme heat, to the extent practicable; and

20 (3) take into account—

21 (A) medical assistance needed as a result
22 of extreme heat events, including expenses re-
23 lated to emergency room visits, urgent care
24 treatments, hospitalizations, and associated
25 medications;

1 (B) life and health insurance claims and
2 analytics associated with extreme heat;

3 (C) workers compensation data focused on
4 employee heat-related claims;

5 (D) existing research on labor productivity
6 losses associated with extreme heat;

7 (E) business interruption coverage claims
8 to determine if there is an increase in the fre-
9 quency of business interruption claim activity
10 due to brown out and other heat-related out-
11 ages or disruptions;

12 (F) economic losses due to the impact of
13 heat on critical infrastructure, such as trans-
14 portation, energy, and water;

15 (G) increases in energy costs for individ-
16 uals and entities related to cooling; and

17 (H) crop and livestock insurance claims
18 and other data to determine overall impact of
19 heat on crops and livestock, including the fre-
20 quency and severity of claims.

21 (c) FEEDBACK.—In conducting the study required
22 under subsection (a), the Under Secretary shall solicit
23 feedback from—

24 (1) Federal agencies, including—

1 (A) the Administration for Community
2 Living;

3 (B) the Administration for Children and
4 Families;

5 (C) the Administration for Strategic Pre-
6 paredness and Response;

7 (D) the Centers for Disease Control and
8 Prevention;

9 (E) the Department of Agriculture;

10 (F) the Department of Defense;

11 (G) the Department of Energy;

12 (H) the Department of the Interior;

13 (I) the Department of Transportation;

14 (J) the Environmental Protection Agency;

15 (K) the Department of Health and Human
16 Services;

17 (L) the Department of Housing and Urban
18 Development;

19 (M) the Federal Emergency Management
20 Agency;

21 (N) the National Institute for Occupa-
22 tional Safety and Health;

23 (O) the National Oceanic and Atmospheric
24 Administration;

25 (P) the National Park Service;

1 (Q) the National Institutes of Health;

2 (R) the Occupational Safety and Health
3 Administration;

4 (S) the Substance Abuse and Mental
5 Health Services Administration;

6 (T) the United States Agency for Inter-
7 national Development;

8 (U) the Forest Service;

9 (V) the Department of Veterans Affairs;
10 and

11 (W) such other Federal Agencies as the
12 Under Secretary determines necessary;

13 (2) non-Federal Government partners; and

14 (3) such other entities as the Under Secretary
15 determines necessary.

16 (d) RECOMMENDATIONS.—The study required under
17 subsection (a) shall include recommendations for how to
18 develop and implement a national system for tracking and
19 making publicly available—

20 (1) health care and other costs associated with
21 the increased demand for medical assistance during
22 extreme heat events, including expenses related to
23 emergency room visits, urgent care treatments, hos-
24 pitalizations, and associated medications;

1 (2) metrics for improving accuracy of heat
2 death reporting; and

3 (3) measures of labor productivity losses due to
4 extreme heat.

5 (e) USE OF EXTERNAL ORGANIZATION.—The Under
6 Secretary may conduct the study required under sub-
7 section (a) through an organization outside the National
8 Oceanic and Atmospheric Administration, such as the Na-
9 tional Academies of Sciences, Engineering, and Medicine
10 or another organization as determined appropriate by the
11 Under Secretary.

12 (f) USE OF EXISTING DATABASES AND INDICES.—
13 The Under Secretary shall use existing databases and in-
14 dices as relevant and available to carry out the study re-
15 quired under subsection (a).

16 (g) REPORT AND AUTHORIZATION FOR USE.—Not
17 later than 4 years after the date of the enactment of this
18 Act, the Under Secretary shall—

19 (1) publish on the HEAT.gov website a report
20 containing the findings of the study required under
21 subsection (a); and

22 (2) authorize the use of those findings for pub-
23 lic use, including through the reporting of the data,
24 methods, and findings of the report under paragraph

25 (1) in an open access peer-reviewed journal in ac-

1 cordance with the scientific integrity policies of the
2 National Oceanic and Atmospheric Administration.

3 (h) UNDER SECRETARY DEFINED.—In this section,
4 the term “Under Secretary” means the Under Secretary
5 of Commerce for Oceans and Atmosphere.

6 (i) AUTHORIZATION OF APPROPRIATIONS.—There is
7 authorized to be appropriated to the Under Secretary
8 \$3,500,000 to carry out this section.

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