

117TH CONGRESS  
2D SESSION

# H. R. 9415

To provide for an analysis and plan with respect to addressing the heat island effect on military installations, and for other purposes.

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IN THE HOUSE OF REPRESENTATIVES

DECEMBER 2, 2022

Mr. NEGUSE introduced the following bill; which was referred to the  
Committee on Armed Services

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## A BILL

To provide for an analysis and plan with respect to addressing the heat island effect on military installations, 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 “Surveying the Heat  
5 Island Effect across Large Divisions Act” or the  
6 “SHIELD Act”.

7 **SEC. 2. ANALYSIS AND PLAN FOR ADDRESSING HEAT IS-**  
8 **LAND EFFECT ON MILITARY INSTALLATIONS.**

9 (a) **INSTALLATION ANALYSIS.**—At the direction of  
10 the Secretary of Defense, the commander of each large

1 military installation (as determined by the Secretary) shall  
2 conduct an analysis of—

3 (1) how the effect known as the “heat island ef-  
4 fect” exacerbates summer heat conditions and neces-  
5 sitates the increased use of air conditioning on the  
6 installation; and

7 (2) inventory on the percentage of tree cover  
8 and plant shade trees on the property of the installa-  
9 tion.

10 (b) REPORT.—Not later than September 30, 2023,  
11 the commander of each large military installation shall  
12 submit to the Secretary of the analysis conducted by the  
13 commander under subsection (a).

14 (c) PLAN.—The Secretary shall—

15 (1) review the reports submitted under sub-  
16 section (b);

17 (2) identify any installation that is a significant  
18 heat island with large expanses of concrete or as-  
19 phalt; and

20 (3) direct the commander of any installation so  
21 identified to increase the tree coverage on the prop-  
22 erty of the installation by 10 to 30 percent by not  
23 later than September 30, 2025.

24 (d) HEAT ISLAND DEFINED.—The term “heat is-  
25 land” means an area with a high concentration of struc-

- 1 tures (such as building, roads, and other infrastructure)
- 2 that absorb and re-emit the sun's heat more than natural
- 3 landscapes such as forests or bodies of water.

