

**GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
LOK SABHA
UNSTARRED QUESTION NO. 418
TO BE ANSWERED ON WEDNESDAY, 24TH JULY, 2024**

DEATHS CAUSED DUE TO HEATWAVE

†418. SHRI SUKHDEO BHAGAT:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) the details of the deaths caused due to heatwaves from 2013 till date, State-wise;
- (b) the details of the steps being taken/proposed to be taken by the Government in lieu of of the report concerning increase in severe heatwaves across the country in the coming years; and
- (c) whether the Government proposes to declare heatwaves as a national calamity?

ANSWER

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR
MINISTRY OF SCIENCE AND TECHNOLOGY
AND EARTH SCIENCES
(DR. JITENDRA SINGH)

- (a) The details are given in Annexure-1 as provided by the National Crime Record Bureau (NCRB), Ministry of Home Affairs (MHA).
- (b) It is a fact that annual temperature is increasing globally, and the impact of the same is reflected in the increase in heatwaves in various parts of the globe, including India.

The India Meteorological Department (IMD) has taken various steps to improve monitoring and early warning systems, which helped minimize loss of life and property during extreme weather events, including heatwaves. These include:

- i. Issuing seasonal and monthly outlook, followed by extended range forecast of temperature and heatwave conditions.
- ii. District-wise heatwave vulnerability Atlas over India to help State Government authorities and disaster management agencies in planning and taking appropriate action.
- iii. The hot weather hazard analysis over India that includes daily temperature, winds, and humidity condition.
- iv. Heat index forecast for the entire country and impact-based forecast of heatwave conditions at district levels.
- v. Real-time heatwave information and warnings on the Web-GIS platform.
- vi. Heat Action Plans (HAPs) in 23 States that are prone to heatwave conditions jointly implemented by the national disaster management authority in collaboration with the State Governments.
- vii. Improvement of forecasts and warning dissemination services along with utilizing modern tools of dissemination systems such as YouTube, Facebook, WhatsApp, X platform, Instagram, etc. for timely public outreach.

- (c) Presently the notified list of disasters eligible for National Disaster Response Fund/State Disaster Response Fund (SDRF) assistance, includes 12 disasters namely cyclone, drought, earthquake, fire, flood, tsunami, hailstorm, landslide, avalanche, cloud burst, pest attack and frost & cold wave. The issue of inclusion of more calamities in the existing notified list of calamities, was considered by the 15th Finance Commission. The Commission in para 8.143 of its report had observed that the list of notified disasters eligible for funding from State Disaster Response Mitigation Fund (SDRMF) and National Disaster Response Mitigation Fund (NDRMF) covers the needs of the State to large extent and thus did not find much merit in the request to expand its scope.

However, a State Government can use up to 10% of the annual funds allocation of the SDRF, subject to fulfilment of certain prescribed conditions and norms, for providing immediate relief to the victims of natural disasters that they consider to be 'disasters' within local context in the State and which are not included in the centrally notified list of natural disasters.

Annexure-1

State/UT wise deaths due to Heat/Sun Stroke during 2013-2022:

| SL | State/UT | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|----|---------------------------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|------------|------------|------------|
| 1 | Andhra Pradesh | 418 | 244 | 654 | 312 | 231 | 97 | 128 | 50 | 22 | 47 |
| 2 | Arunachal Pradesh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | Assam | 5 | 0 | 0 | 6 | 0 | 0 | 3 | 0 | 0 | 1 |
| 4 | Bihar | 85 | 131 | 86 | 85 | 84 | 64 | 215 | 53 | 57 | 78 |
| 5 | Chhattisgarh | 3 | 4 | 2 | 9 | 11 | 1 | 16 | 3 | 2 | 11 |
| 6 | Goa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | Gujarat | 26 | 45 | 52 | 32 | 25 | 31 | 27 | 12 | 8 | 5 |
| 8 | Haryana | 82 | 79 | 34 | 76 | 24 | 56 | 46 | 23 | 14 | 27 |
| 9 | Himachal Pradesh | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 10 | Jharkhand | 42 | 50 | 96 | 45 | 51 | 42 | 88 | 23 | 33 | 47 |
| 11 | Karnataka | 6 | 2 | 0 | 17 | 0 | 0 | 4 | 1 | 0 | 2 |
| 12 | Kerala | 1 | 0 | 1 | 4 | 1 | 1 | 3 | 0 | 0 | 0 |
| 13 | Madhya Pradesh | 12 | 33 | 24 | 26 | 34 | 15 | 33 | 7 | 2 | 27 |
| 14 | Maharashtra | 80 | 58 | 61 | 96 | 102 | 128 | 159 | 56 | 37 | 90 |
| 15 | Manipur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | Meghalaya | 0 | 2 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| 17 | Mizoram | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | Nagaland | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | Odisha | 101 | 78 | 60 | 81 | 99 | 40 | 84 | 13 | 15 | 38 |
| 20 | Punjab | 144 | 123 | 99 | 145 | 60 | 38 | 90 | 110 | 91 | 130 |
| 21 | Rajasthan | 40 | 45 | 41 | 51 | 35 | 43 | 54 | 23 | 1 | 12 |
| 22 | Sikkim | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 23 | Tamil Nadu | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 2 |
| 24 | Telangana # | - | 128 | 182 | 216 | 180 | 107 | 156 | 98 | 43 | 62 |
| 25 | Tripura | 12 | 2 | 0 | 2 | 0 | 1 | 1 | 2 | 0 | 2 |
| 26 | Uttar Pradesh | 108 | 126 | 487 | 114 | 142 | 176 | 117 | 50 | 35 | 130 |
| 27 | Uttarakhand | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | West Bengal | 45 | 88 | 28 | 18 | 48 | 46 | 49 | 6 | 11 | 18 |
| | TOTAL STATE(S) | 1211 | 1239 | 1907 | 1336 | 1127 | 890 | 1274 | 530 | 374 | 729 |
| 29 | A & N Islands | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | Chandigarh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 | D&N Haveli and Daman&Diu @ + | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 | Delhi UT | 2 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |

| | | | | | | | | | | | |
|----|--------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 33 | Jammu & Kashmir @ * | 3 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 | Ladakh @ | - | - | - | - | - | - | - | 0 | 0 | 0 |
| 35 | Lakshadweep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 36 | Puducherry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL UT(S) | 5 | 9 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 1 |
| | TOTAL (ALL INDIA) | 121 | 124 | 190 | 133 | 112 | 890 | 127 | 530 | 374 | 730 |
| | | 6 | 8 | 8 | 8 | 7 | | 4 | | | |

As per data provided by States/UTs

'+' Combined data of erstwhile D & N HAVELI AND DAMAN & DIU UT during 2013-2019

'*' Data of erstwhile JAMMU & KASHMIR State Including LADAKH during 2013-2019

'#' Data of newly created State during 2014

'@' Data of newly created Union Territory 2020

Source: National Crime Record Bureau (NCRB), Ministry of Home Affairs (MHA)
