

GOVERNMENT OF INDIA  
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 500**  
TO BE ANSWERED ON 02.12.2021

**Data on heat-wave related catastrophes**

500. SHRI MD. NADIMUL HAQUE:

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE be pleased to state:

- (a) whether Government has data regarding heat-wave related death in the country;
- (b) if so, the details thereof, State-wise;
- (c) whether Government possesses a list of heat-wave hotspots in the country;
- (d) whether Government has adopted any measures to rehabilitate residents in these areas, if so, the details thereof; and
- (e) whether any measures have been adopted to address the specific issue of growing number of heatwave hotspots in the country, if so, the details thereof?

**ANSWER**

**MINISTER OF STATE IN THE MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE**  
**(SHRI ASHWINI KUMAR CHOUBEY)**

(a) & (b) Yes, state-wise data regarding heat-wave related death in the country is placed at Annexure.

(c) As per the Ministry of Earth Sciences, during hot weather season, stations from the north, northwest, central, east India and northeast Peninsula together called Core Heat-Wave Zone (CHZ) which are most prone for heat wave (HW) & severe heat wave (SHW). The CHZ covers states of Punjab, Himachal Pradesh, Uttarakhand, Delhi, Haryana, Rajasthan, Uttar Pradesh, Gujarat, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, West Bengal, Orissa and Telengana.

(d) & (e) Heat-related illnesses in context of climate change is a major focus under National Programme on Climate Change and Human Health (NPCCHH), National Centre for Disease Control (NCDC) Delhi. NPCCHH issues advisory and early warnings to state nodal officers when the daily temperature starts increasing and shares India Meteorological Department (IMD) heat-wave alerts with them.

NPCCHH has prepared and disseminated National Action Plan on Heat-Related Illnesses (NAPHRI), to guide stakeholders in clinical management, hospital preparedness and surveillance activities on heat issues. The programme also supports the development of Heat Action Plans (HAP) at state and district levels in coordination with National Disaster Management Authority (NDMA).

In addition, NPCCHH is working for general awareness through Information, Education and Communication (IEC) and sensitization workshops on heat and health issues. It also works towards building the capacity of health care professionals through training and workshops on heat issues.

Further, NDMA has taken several steps to address heat-wave:

- Issued revised "Guidelines for Preparation of Action Plan – Prevention and Management of Heat Wave" in October 2019.
- Conducted annual heat-wave preparedness workshops with all the heat-wave prone states since 2017. Five heat-wave preparedness workshops have been held so far.
- Issuance of dos and don'ts including special advisories for different stakeholders, as well as follow up on actions taken
- Public awareness campaign using social media, print media as well as broadcast media.
- Research study on estimation of temperature thresholds for heat-wave early warning in 103 cities.

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Annexure Referred to Reply in Part (A) & (B) of Rajya Sabha Unstarred Question No. 500  
Due for 2.12.2021 Regarding "Data On Heat-Wave Related Catastrophes" Raised by  
Shri Md. Nadimul Haque.

**State wise Heatstroke Deaths reported under Heat Related Illness Surveillance, India,  
2016-21**

State	2016	2017	2018	2019	2020	2021
Andhra Pradesh	723	236	8	29	0	0
Arunachal Pradesh*				NR	1	NR
Bihar	Nil	0	2	121	NR	NR
Chhattisgarh	1	0	0	0	0	NR
Delhi	-	0	0	0	NR	0
Goa*				0	NR	NR
Gujarat	7	0	3	8	NR	NR
Haryana	Nil	0	0	0	NR	NR
Himachal Pradesh				0	NR	NR
Jaamu& Kashmir* (Jammu Division)				0	1	NR
Jaamu& Kashmir* (Kashmir Division)				0	2	NR
Jharkhand	4	0	0	0	NR	NR
Karnataka	Nil	2	0	0	NR	0
Kerala*				1	0	0
Madhya Pradesh	Nil	3	1	2	NR	NR
Maharashtra	7	9	2	6	0	NR
Odisha	36	17	7	0	NR	0
Punjab	Nil	0	0	0	NR	NR
Rajasthan	9	9	1	3	0	NR
Tamil Nadu	Nil	0	0	1	NR	0
Telangana	324	108	0	42	NR	NR
Uttar pradesh	Nil	0	0	2	NR	0
Uttarakhand*				0	NR	NR
West Bengal	Nil	0	1	NR	NR	NR
<b>Total</b>	<b>1111</b>	<b>384</b>	<b>25</b>	<b>215</b>	<b>4</b>	<b>0</b>

Source: Data shared by National Centre for Disease Control, Directorate General of Health Services.

NR: Not Reported

\*In 2016-18, Arunachal Pradesh, Goa, Jammu and Kashmir, Kerala and Uttarakhand were not a part of surveillance network.