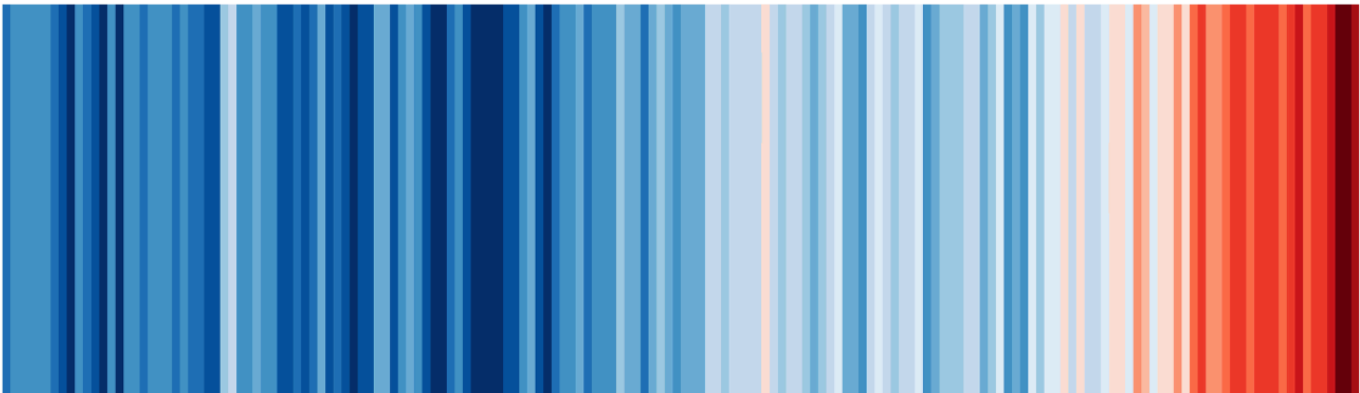




Heat Action Plan 2026

Karnataka State Disaster Management Authority,
Revenue Department (DM),
Government of Karnataka



KARNATAKA
HEAT ACTION PLAN
2026

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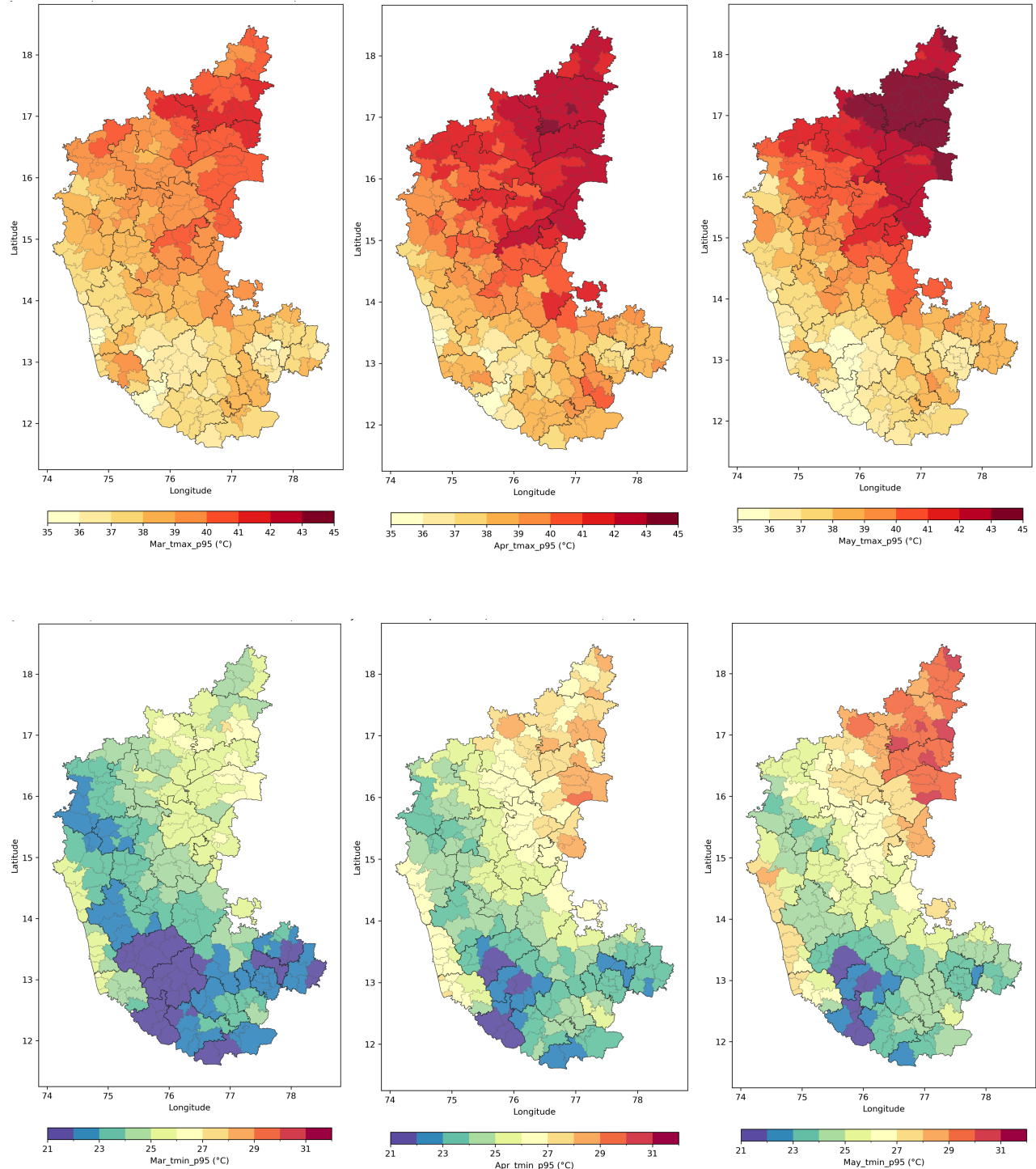
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List of Abbreviations

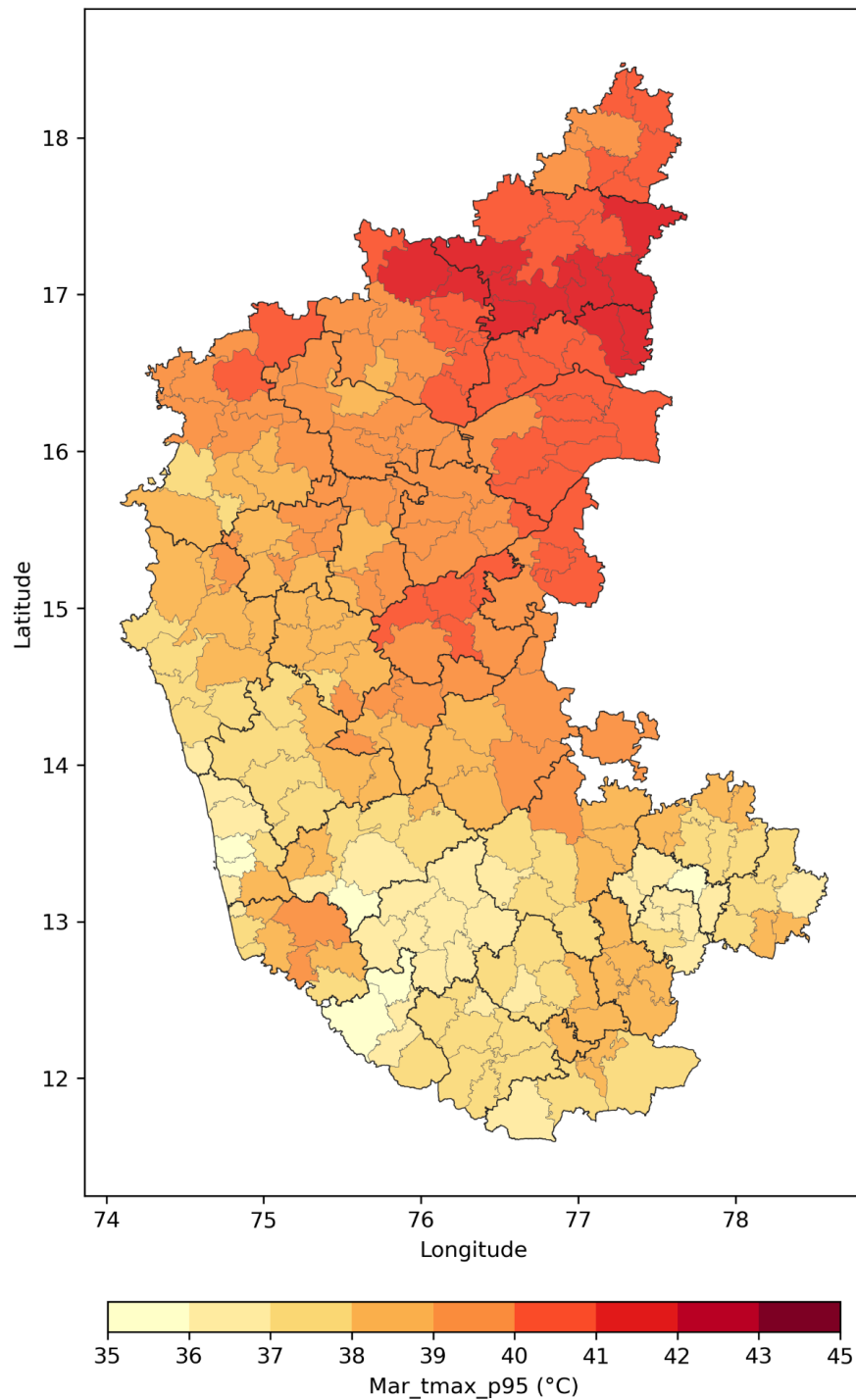
T_{max}	Maximum Temperature
T_{min}	Minimum Temperature
WBGT	Wet-Bulb Globe Temperature
HI	Heat Index
EHF	Excess Heat Factor
THI	Temperature-Humidity Index
RDPR	Rural Development and Panchayat Raj
MoHFW	Ministry of Health and Family Welfare
ESCOM	Electricity Supply Companies
ULB	Urban Local Body
SHG	Self Help Group
ANM	Auxiliary Nurse Midwife
IISc	Indian Institute of Science
ARTPark – IISc	AI & Robotics Technology Park – IISc
CAOS – IISc	Centre for Atmospheric and Oceanic Sciences – IISc

How Heat Builds from March to May - Tracking Heat Risk Using KSNDMC station data



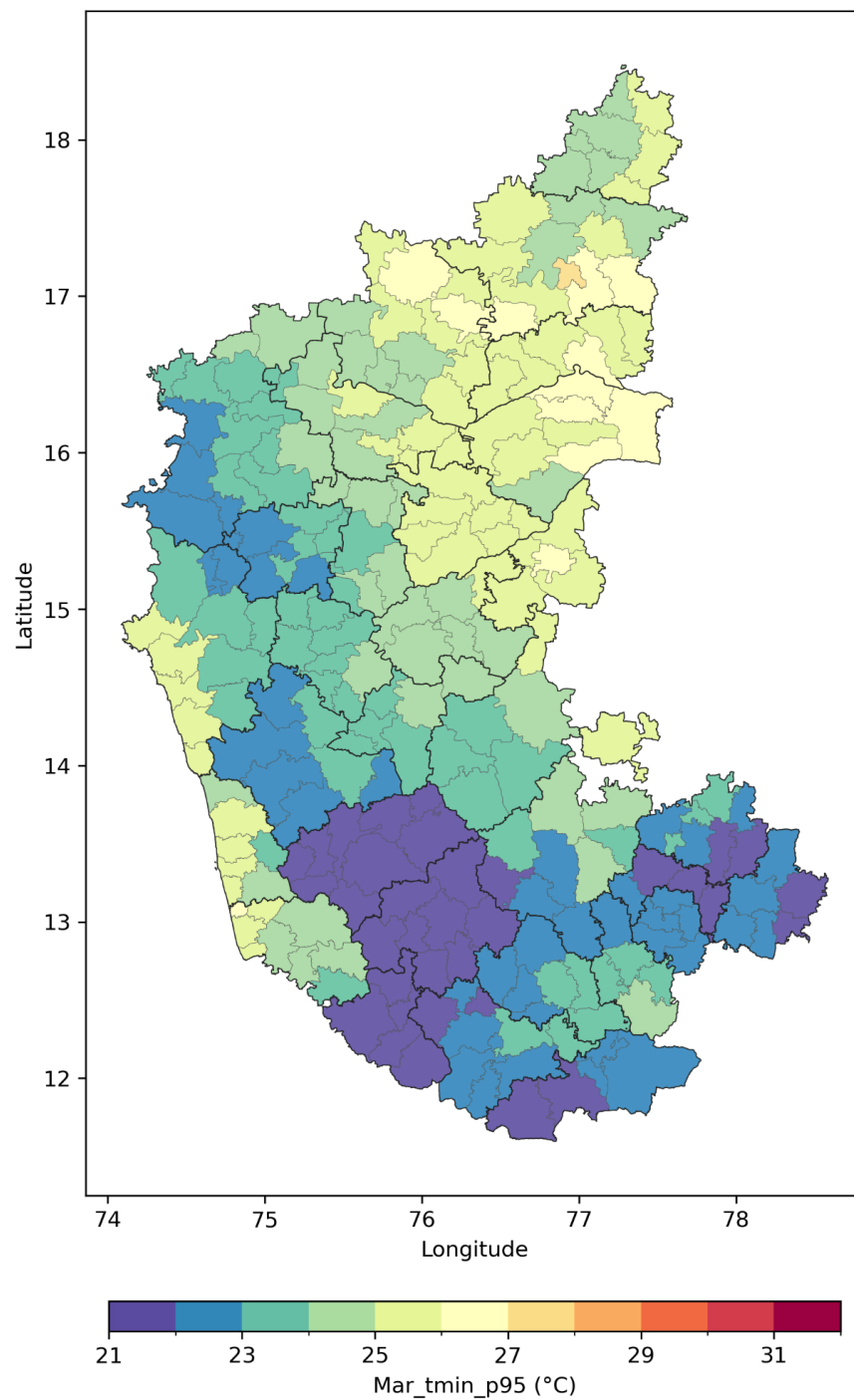
Month-wise 95th percentile temperature (T95) derived from KSNDMC station data

March Heat Risk Threshold ($T_{max\ 95}$) – Maximum Temperature



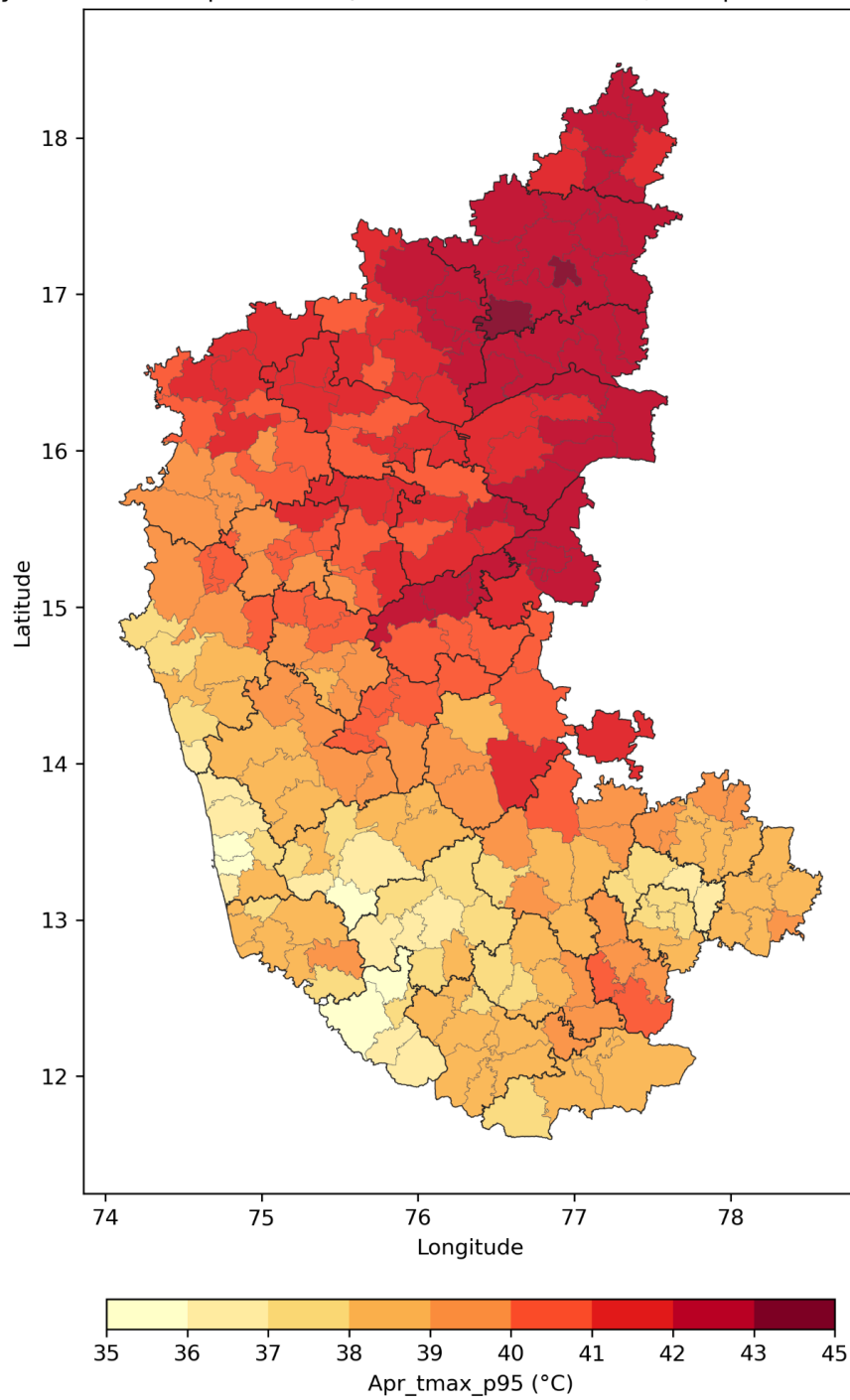
Month-wise 95th percentile temperature (T95) derived from KSNDMC station data

March Heat Risk Threshold ($T_{min\ 95}$) – Minimum Temperature



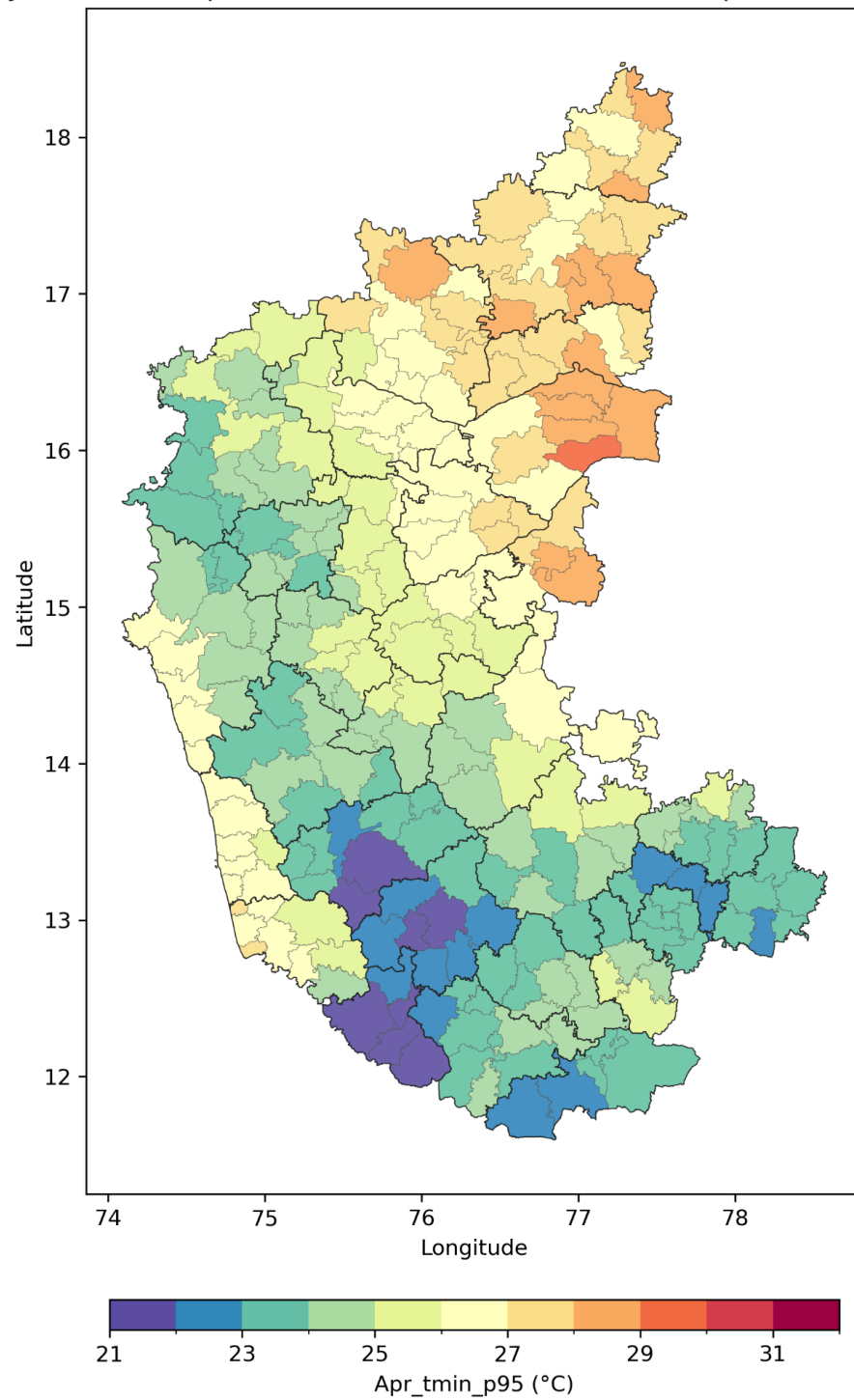
Month-wise 95th percentile temperature (T95) derived from KSNDMC station data

April Heat Risk Threshold ($T_{max\ 95}$) – Maximum Temperature



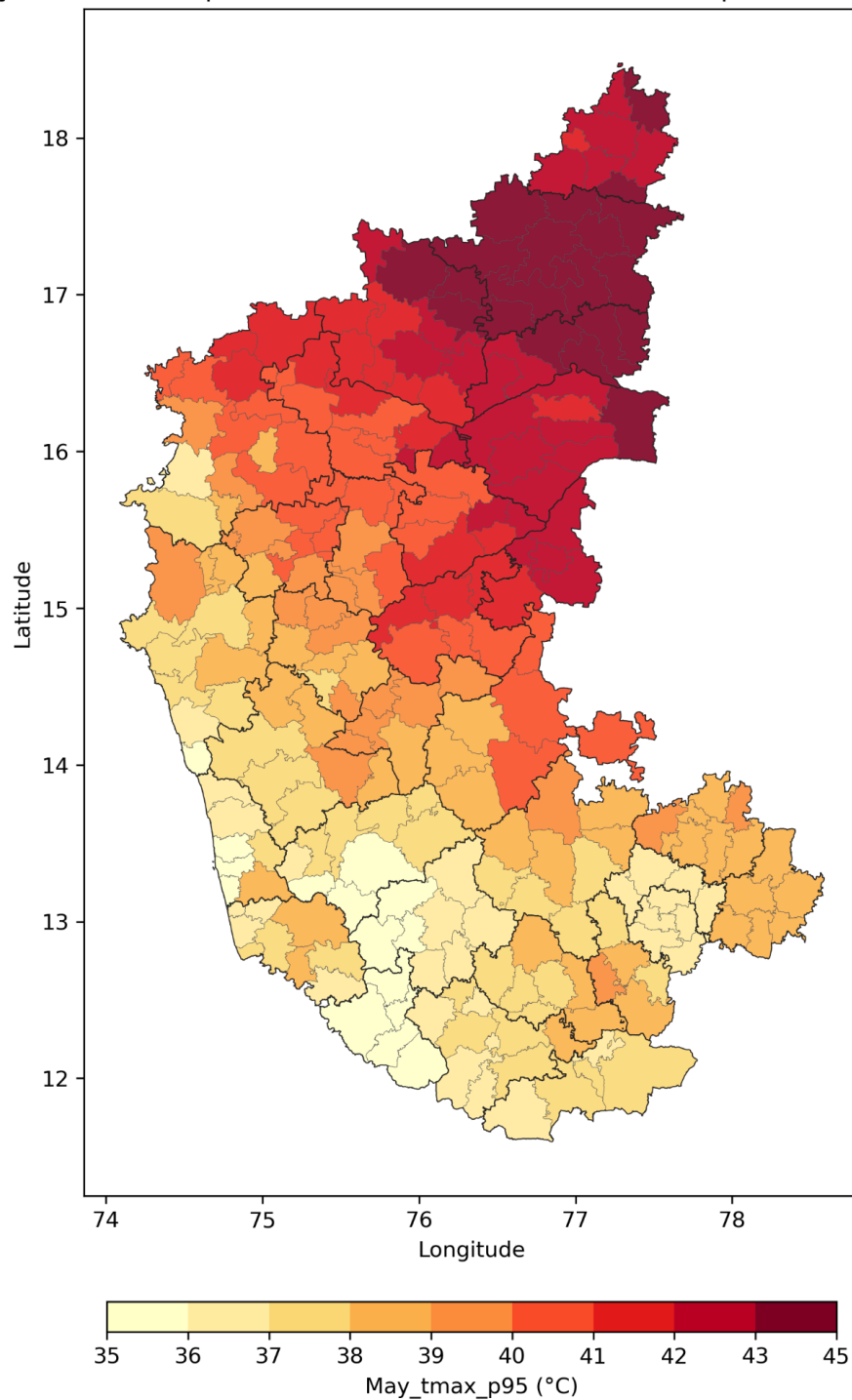
Month-wise 95th percentile temperature (T95) derived from KSNDMC station data

April Heat Risk Threshold ($T_{min\ 95}$) – Minimum Temperature



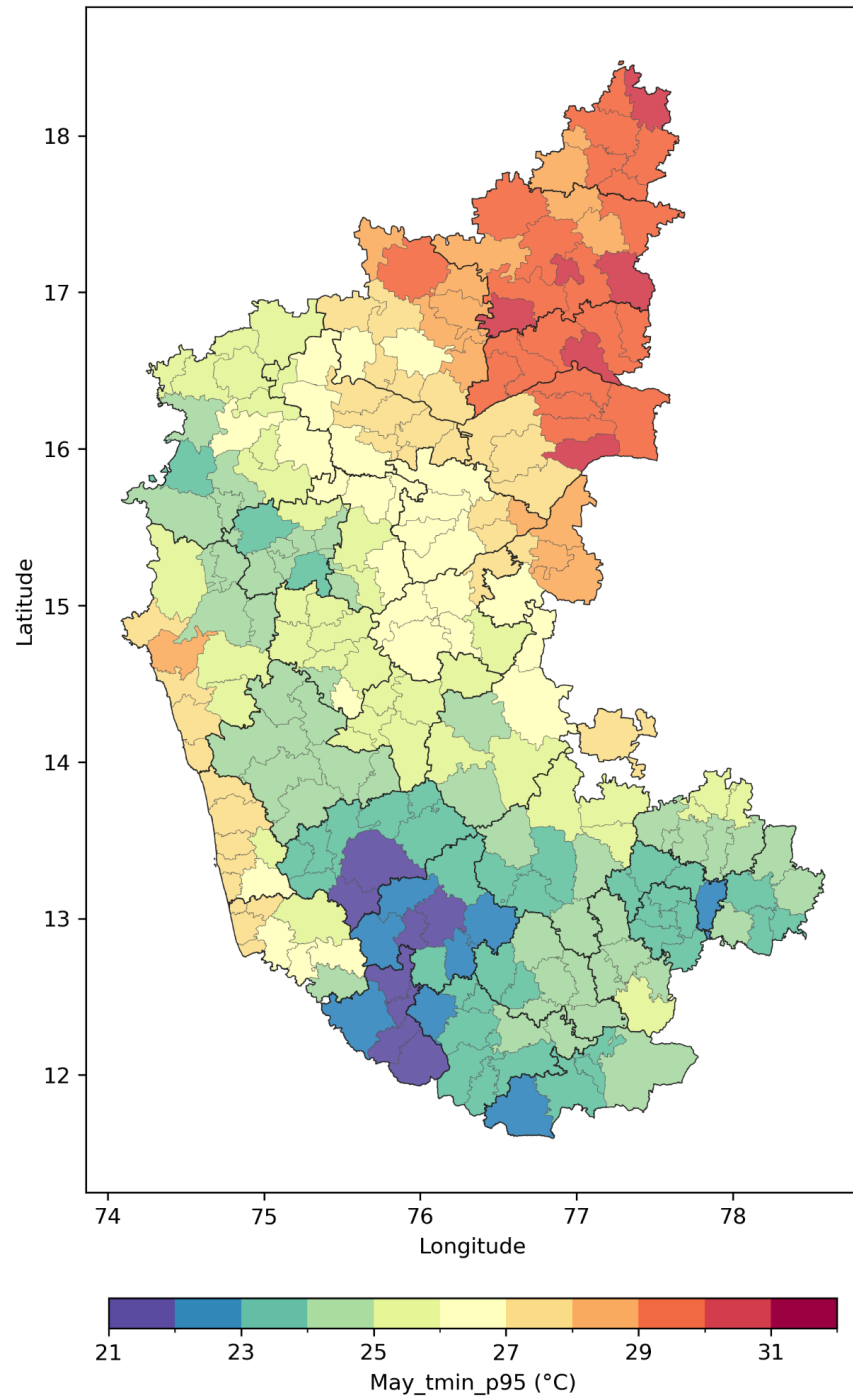
Month-wise 95th percentile temperature (T95) derived from KSNDMC station data

May Heat Risk Threshold ($T_{max\ 95}$) – Maximum Temperature



Month-wise 95th percentile temperature (T95) derived from KSNDMC station data

May Heat Risk Threshold ($T_{min\ 95}$) – Minimum Temperature



Chapter 1 — Introduction

1.1 Heat Risk in Karnataka

Heatwaves are among the most significant and growing climate-related hazards affecting Karnataka. Unlike floods or cyclones, heat impacts are often invisible and underreported. As a result, the true burden of heat-related illness is underestimated.

The risk of heat is not uniform across the state. Karnataka spans diverse climatic zones, including hot-dry regions of North Interior Karnataka, South Interior Karnataka, urban heat island-affected cities, and humid coastal regions where high humidity increases heat stress. In recent years, rising temperatures, prolonged heat spells, and increasing night-time temperatures have amplified heat risk across all regions (see, [Figure 1.1](#)). Climate projections indicate that extreme heat conditions are likely to become more frequent and intense in the coming decades, making heat risk a persistent and systemic public health and livelihood challenge.

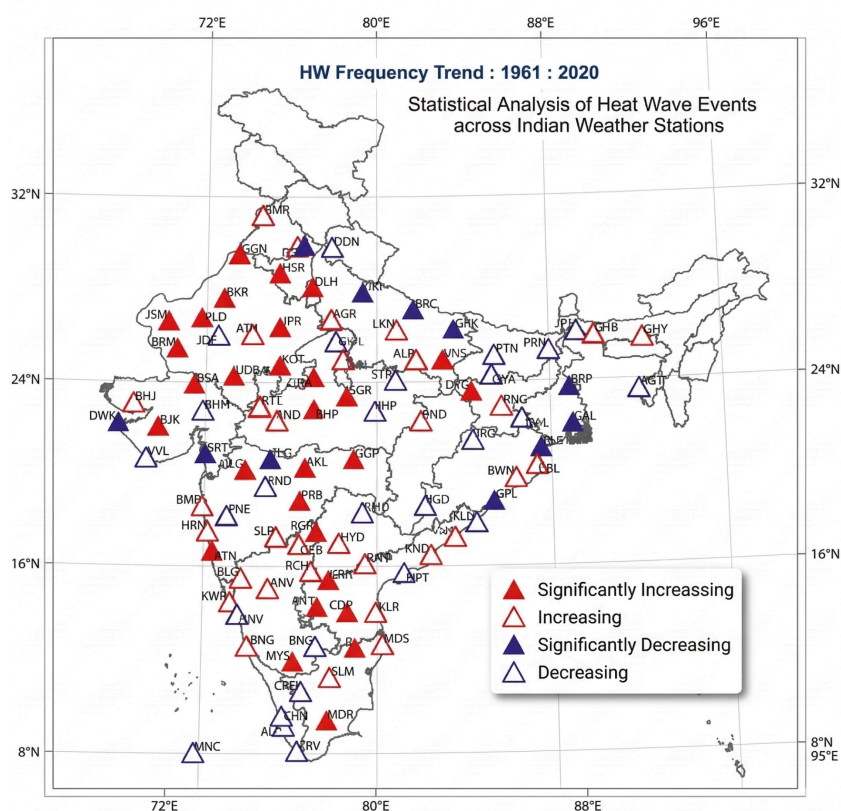


Figure 1.1. Station wise, HW duration trends during March-June for the period 1961-2020. Adopted from, Heat and Cold Waves in India Processes and Predictability. IMD Met. Monograph :MoES/IMD/Synoptic Met/01(2023)/28

1.2 Heat Wave as a Notified Disaster

As per the recommendations of the 16th Finance Commission, the Ministry of Home Affairs (MHA), through a letter dated 12 February 2026, has included heatwave under the list of eligible notified natural calamities for receiving assistance from the State Disaster Response Fund (SDRF) and National Disaster Response Fund (NDRF). Consequently, heatwave response/relief can be implemented as per the prevailing SDRF guidelines and norms issued by MHA.

1.3 Purpose of the Heat Action Plan

The Karnataka Heat Action Plan (HAP) is an operational framework designed to reduce heat-related risks through coordinated, timely, and evidence-based action.

The objectives of the plan are to:

- Reduce heat-related illness and mortality
- Enable early warning and early action
- Strengthen preparedness of health systems and public infrastructure
- Ensure coordinated response across departments
- Protect vulnerable populations

This plan translates national guidance issued by the National Disaster Management Authority (NDMA) and the Ministry of Health and Family Welfare (MoHWF) into actionable measures suited to Karnataka's context.

1.4 Scope of the Plan

This plan applies across:

- All 31 districts and Greater Bengaluru Area
- All administrative levels: State, District, Taluk, and Gram Panchayat
- Multiple Departments, viz, Health, Disaster Management, RDPR, Urban Development, Water Resource, Labour, Energy, Agriculture/Horticulture, Education and Fire and Emergency Services

The plan covers the heat season (March–June) and outlines:

- Pre-season preparedness
- Alert-based response (Green, Yellow, Orange, Red)
- Monitoring, reporting, and review

This plan complements national frameworks and operationalises them within the state administrative system.

1.5 Vulnerability and Risk Approach

Heat risk disproportionately affects certain populations based on exposure, sensitivity, and adaptive capacity. Vulnerable groups include:

Elderly persons, children, pregnant women, tourists and the unacclimatized	People with chronic illnesses and People on specific medications	Outdoor workers (construction, agriculture, sanitation, delivery workers)	Residents of poorly ventilated or heat-exposed housing
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This plan adopts an operational and field-driven approach to vulnerability identification, complemented by available data and local inputs.

Districts shall identify vulnerable populations and high-risk locations through:

- Inter-departmental coordination
- Available administrative data (Health, labour, RDPR, ULBs, Revenue)
- Local knowledge and field inputs

Frontline workers, including ASHA, Anganwadi workers, and local body functionaries, play a critical role in identifying, monitoring, and supporting vulnerable individuals, particularly during heat alert periods.

This approach ensures that vulnerability identification remains dynamic, locally relevant, and actionable

1.6 Nature of the Plan

This is an operational and action-oriented document. It defines:

- Roles and responsibilities
- Alert-based actions
- Coordination mechanisms
- Reporting and accountability systems

This plan is aligned with national guidelines and has been suitably adapted to the context of Karnataka. It establishes the minimum required actions, while allowing districts to adapt based on local conditions.

1.7 Operational Period and Review

This plan is operational during the heat season (March–June) each year and shall be reviewed and updated periodically based on:

- Seasonal experience
- Emerging evidence
- Climate trends

Chapter 2 — Karnataka's Heat Profile and Heat Risk Classification

Extreme heat is not experienced uniformly across Karnataka. Differences in climate, geography, humidity, and land use result in distinct patterns of heat exposure across the state. Understanding these patterns is essential for designing an effective Heat Action Plan.

This chapter describes the major climate zones of Karnataka, defines what constitutes extreme heat in different parts of the state, and explains how districts are classified according to their heat exposure risk. These classifications support the early warning system described in Chapter 4 and the response protocols outlined in Chapters 5 and 6.

2.1 Karnataka's Climate Zones

Karnataka is divided into North Interior, South Interior, and Coastal zones following IMD classification, ensuring alignment with standard heat alert practices.

Zone A North Interior Karnataka Districts	Zone B South Interior Karnataka Districts	Zone C Coastal Karnataka Districts
Bagalkote, Ballari, Belagavi, Bidar, Dharwad, Haveri, Gadag, Kalaburagi, Koppala, Raichur, Vijayanagara, Vijayapura, Yadgir	Bengaluru Urban, Bengaluru Rural, Bengaluru South, Chamarajanagara, Chikkaballapura, Chikkamagaluru, Chitradurga, Davanagere, Hassan, Kodagu, Kolar, Mysuru, Mandya, Shivamogga, Tumakuru	Dakshina Kannada, Udupi, Uttara Kannada

2.2 Karnataka's Heat Characteristics – Primary heat stress drivers

The classification is based on climate indicators including heatwave frequency, warm night frequency, urban heat island effects, vegetation cover, and water stress.

Zone A North Interior Karnataka	Zone B South Interior Karnataka	Zone C Coastal Karnataka
• Highest heatwave frequency (dry heat) • Warm nights reducing physiological recovery	• Moderate to high temperatures (dry heat) • Reduced night-time cooling in cities	• High humidity reducing sweat evaporation (moist heat) • Combined effect of temperature and moisture

Heat stress in Karnataka is driven by different combinations of temperature, humidity, radiation, and urbanisation across regions.

2.3 Heat Indicators Used in Karnataka Heat Action Plan

Heat risk in Karnataka is assessed using a combination of indicators that capture different aspects of extreme heat. Each indicator provides specific information and is used for different purposes in the Heat Action Plan. The heat action plan adopts a multi-indicator and sector-specific approach to heat risk classification. While a common colour-coded framework (normal, moderate, high, extreme) is used across sectors for consistency, thresholds and indicators vary to reflect differences in exposure, sensitivity, and impact pathways.

2.3.1 India Meteorological Department Heatwave criteria

The national heatwave definition used by the India Meteorological Department (IMD) is based primarily on air temperature, specifically maximum temperature and its departure from normal. It defines official heatwave and severe heatwave conditions and serves as the basis for issuing alerts and guiding government response. However, given Karnataka's diverse climate regimes, this plan adopts zone-specific thresholds to better capture local heat stress conditions.

IMD – Heat Risk Classification for Karnataka

Zones	Normal	Moderate	High	Extreme
Zone A (North Interior) & Zone B (South Interior)	$T_{max} \geq 40^{\circ}C$ -2.5°C to +2.4°C above normal	$T_{max} \geq 40^{\circ}C$ +2.5°C to +4.4°C above normal	$T_{max} \geq 40^{\circ}C$ +4.5°C to +6.4°C above normal or $T_{max} \geq 45^{\circ}C$	$T_{max} \geq 40^{\circ}C$ $\geq +6.5^{\circ}C$ above normal or $T_{max} \geq 47^{\circ}C$
Zone C (Coastal)	$T_{max} \geq 37^{\circ}C$ -2.5°C to +2.4°C above normal	$T_{max} \geq 37^{\circ}C$ 2.5°C to +4.4°C above normal	$T_{max} \geq 37^{\circ}C$ +4.5°C to +6.4°C above normal	$T_{max} \geq 37^{\circ}C$ $\geq +6.5^{\circ}C$ above normal

2.3.2 Excess Heat Factor (EHF)

Excess Heat Factor¹ (EHF) measures accumulated heat stress by combining short-term and long-term temperature anomalies, capturing how unusual current conditions are relative to normal. It reflects the build-up of heat over several days and helps identify developing and ongoing heatwave conditions.

2.3.3 Heat Index (HI)

The Heat Index is an apparent temperature that combines air temperature and humidity to indicate how hot it feels to people, and is especially useful for assessing heat stress in coastal and humid regions. Heat Index values in this HAP are computed using the Lu and Romps² (2022) formulation, an extension of the standard Heat Index valid across the full range of temperature and humidity conditions observed in Karnataka

¹ Nairn JR, Fawcett RJ. The excess heat factor: a metric for heatwave intensity and its use in classifying heatwave severity. Int J Environ Res Public Health. 2014 Dec 23;12(1):227-53. doi: 10.3390/ijerph120100227.

² Lu Y and D Romps. 2022. "Extending the Heat Index." Journal of Applied Meteorology and Climatology, 10.1175/JAMC-D-22-0021.1.

EHF – Heat Risk Classification for Karnataka

Normal	Moderate	High	Extreme
$EHF < 0$	$0 < EHF < EHF_{85}$ ³	$EHF > EHF_{85}$	$EHF > 3 \times EHF_{85}$
Minimal heat stress	Vulnerable groups are at risk.	Heat cramps and heat exhaustion possible	High risk of heatstroke

Heat risk levels may be escalated when EHF threshold (High and Extreme) conditions persist for three or more consecutive days

HI – Heat Risk Classification⁴ for Karnataka

Normal	Moderate	High	Extreme
$HI < 35^{\circ}C$	$36^{\circ}C - 45^{\circ}C$	$46^{\circ}C - 55^{\circ}C$	$HI > 55^{\circ}C$
Minimal heat stress	Fatigue possible with prolonged exposure	Heat cramps and heat exhaustion possible	High risk of heatstroke

2.3.4 Wet Bulb Globe Temperature (WBGT)

WBGT combines temperature, humidity, wind, and solar radiation to assess heat stress on the human body. It reflects real-world conditions by accounting for heat, humidity, sun exposure,

³ EHF₈₅ refers to conditions where the Excess Heat Factor (EHF) exceeds the 85th percentile of its historical distribution, indicating significantly elevated and unusual heat stress.

⁴ The Extended Heat Index (HI): HI classification used in this plan are based on absolute thresholds, as these indices are grounded in human thermophysiology and reflect direct heat stress on the body. While percentile-based approaches can capture local climatic variability and acclimatisation, absolute thresholds are used here to ensure consistency with established health risk guidance and operational simplicity. For zone - 3 (coastal risk assessment). This plan leverages a modified Excess Heat Factor (EHF) approach using Heat Index in place of mean temperature. A positive anomaly condition ($EHF-HI > 0$) is used to identify anomalous heat stress conditions.

and airflow, making it particularly useful for evaluating risk during outdoor work. WBGT is widely used to guide worker safety measures and issue heat-related advisories.

WBGT – Heat Risk Classification⁵⁶⁷ for Karnataka

Normal	Moderate	High	Extreme
$WBGT < 26^{\circ}C$	$26^{\circ}C - 28^{\circ}C$	$28^{\circ}C - 31^{\circ}C$	$WBGT > 31^{\circ}C$
Minimal heat stress	Increased rest and hydration needed	Limit outdoor work	Avoid heavy outdoor work

2.3.5 Warm Night

Warm nights refer to elevated minimum (night-time) temperatures compared to normal conditions, indicating a lack of adequate cooling after sunset. This reduces the body's ability to recover from daytime heat, leading to increased cumulative stress and higher health risks. Persistent warm night conditions are therefore used to adjust and escalate heat risk levels, especially during prolonged heat events.

Warm Night – Heat Risk Classification for Karnataka

Normal	Moderate	High	Extreme
$T_{min} < 90^{th}$ Percentile	$T_{min} > 90^{th}$ Percentile	$T_{min} > 95^{th}$ Percentile	$T_{min} > 98^{th}$ Percentile
No unusual night heat	Reduced night-time cooling	Significant night heat stress	Severe night heat with no recovery

⁵ Liljegren JC, Carhart RA, Lawday P, Tschopp S, Sharp R. Modeling the wet bulb globe temperature using standard meteorological measurements. J Occup Environ Hyg. 2008 Oct;5(10):645-55.

⁶ Brimicombe, C., Lo, C. H. B., Pappenberger, F., Di Napoli, C., Maciel, P., Quintino, T., et al. (2023). Wet Bulb Globe Temperature: Indicating extreme heat risk on a global grid.

⁷ Wet Bulb Globe Temperature (WBGT). WBGT classifications used in this plan are based on absolute thresholds, as these indices are grounded in human thermophysiology and reflect direct heat stress on the body. While percentile-based approaches can capture local climatic variability and acclimatisation, absolute thresholds are used here to ensure consistency with established health risk guidance and operational simplicity.

2.3.6 Livestock (Animal Health & Dairy Sector)

Livestock heat stress is assessed using the Temperature–Humidity Index (THI), which combines air temperature and humidity to represent thermal stress on animals. It helps quantify heat stress levels affecting animal health and productivity, and is widely used to guide livestock management and health advisories.

Livestock THI – Heat Risk Classification for Karnataka			
Normal	Moderate	High	Extreme
< 72	72 – 78	79 – 88	≥ 89
No heat stress	Mild heat stress; slight reduction in feed intake	Moderate heat stress; reduced milk yield and productivity	Severe heat stress; high risk of health impacts and production loss

2.3.7 Agriculture & Horticulture

Agricultural and horticultural heat stress is assessed using maximum temperature percentile and anomaly-based thresholds to capture both local extremity and departures from normal conditions affecting crop growth and productivity. Tmax percentile identifies unusually high temperatures relative to local climatology, while Tmax anomaly reflects sudden heat stress. The framework also considers persistence of heat and crop growth stages to account for increased vulnerability, with absolute Tmax included as a safeguard to ensure critical temperature limits are not overlooked.

Agriculture & Horticulture – Heat Risk Classification for Karnataka			
Normal	Moderate	High	Extreme
$T_{max} < 70^{th}$ Percentile $T_{max, anomaly}$ less than $+ 1.5^{\circ}C$	$T_{max} < 85^{th}$ Percentile $T_{max, anomaly}$ $+ 1.5^{\circ}C - + 3^{\circ}C$ Persistence ≥3 days	$T_{max} < 95^{th}$ Percentile $T_{max, anomaly}$ $+ 3^{\circ}C - + 5^{\circ}C$ Persistence ≥3 days	$T_{max} > 95^{th}$ Percentile $T_{max, anomaly}$ above $+ 5^{\circ}C$ Persistence ≥2 days

Normal conditions	Early/mild stress	Significant stress	Severe/extreme stress
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2.3.8 Electricity

Electricity sector heat stress is defined using temperature-based indicators and demand conditions, as rising temperatures increase cooling demand and place stress on power supply systems. Maximum temperature drives electricity consumption, while temperature anomalies signal unusual surges in demand. When high or extreme temperatures persist for two or more consecutive days, they lead to sustained demand and increased stress on the power system.

Electricity – Heat Risk Classification for Karnataka

Normal	Moderate	High	Extreme
$T_{max} \leq 35^{\circ}\text{C}$, $T_{max} \leq 35^{\circ}\text{C}$ above normal	$T_{max} \geq 40^{\circ}\text{C}$, +2.5°C to +4.4°C above normal	$T_{max} \geq 40^{\circ}\text{C}$ +4.5°C to +6.4°C above normal	$T_{max} \geq 40^{\circ}\text{C}$ $\geq +6.5^{\circ}\text{C}$ above normal
No stress on grid	Early rise in cooling load	Significant grid stress	Severe stress; outage risk

2.4 Sector-wise Heat Risk Indicators

Different sectors experience and respond to heat stress in different ways. Accordingly, sector-specific indicators are used to assess heat risk, while maintaining a common classification framework (Normal, Moderate, High, Extreme) for consistency across the Heat Action Plan.

Heat alerts in Karnataka are issued using a multi-indicator approach, with Excess Heat Factor (EHF) serving as the primary indicator as it captures accumulated and sustained heat stress. Temperature-based indicators such as maximum temperature, Heat Index, and Wet Bulb Globe Temperature (WBGT) are used to reflect real-time exposure conditions. Warm night conditions are also considered, as they reduce recovery from daytime heat. The final alert level is determined based on the highest severity among these indicators, with escalation applied when multiple indicators show elevated risk.

Health Department	Animal Husbandry	Agriculture
Excess Heat Factor (EHF) Extended Heat Index	Temperature–Humidity Index (THI)	Maximum Temperature anomaly Maximum Temperature
Labour	General public	Electricity
Excess Heat Factor (EHF) Consecutive Warm Nights WBGT (Maximum)	Excess Heat Factor (EHF) Two Consecutive Warm Nights Extended Heat Index	Maximum Temperature anomaly Consecutive Warm Nights

2.4.1 Illustrative Examples of Heat Alert Decision-Making

Example	Criteria 1 (EHF)	Criteria 2 (Other Indicator)	Final Alert	Reason
Example 1: Accumulated Heat	High	Tmax Moderate	High	Sustained heat stress due to high EHF
Example 2: Humid Conditions > 2 consecutive days	Moderate	WBGT/HI High	High	High “feels-like” temperature due to humidity
Example 3: Warm Nights > 2 Consecutive days	Moderate	High Warm Night	High	Lack of night-time recovery
Example 4: IMD Override Case	Normal	IMD - Alert High	High	IMD-defined heatwave condition takes precedence for official alerts

The illustrative examples provided are intended to demonstrate the general decision-making approach and may not capture all operational scenarios. In practice, alerts may be issued based on a single reliable indicator when confidence in other parameters or derived indices are limited. The specific indicator(s) used for issuing each alert will be clearly communicated. Excess Heat Factor will serve as the primary indicator for overall heat risk assessment and advisories.

2.5 Future Climate and Heat Trends in Karnataka

Climate projections from the Karnataka State Action Plan on Climate Change (KSAPCC) Version-2 indicate a clear warming trend across the state. By the 2030s, summer maximum temperatures (March–May) are projected to increase by about 0.5°C to 1.5°C across most districts, with higher increases of up to 1.5–2.0°C in the north interior Karnataka region. Winter minimum temperatures are also expected to rise by about 0.5°C to 2.0°C. By mid-century (around 2050), temperatures are projected to increase further by about 1.0°C to 2.5°C across districts. These rising temperatures indicate increasing heat stress across Karnataka, particularly in northern regions, with a higher likelihood of more intense and prolonged heat conditions.

2.6 Traditional Heat Adaptation Practices

Communities in Karnataka have traditionally adapted to extreme heat through locally evolved practices that reduce exposure and improve resilience. These practices continue to support heat risk management, particularly at the community level.

Seasonal work-hour adjustment –

Outdoor work shifted to early morning or evening during peak summer

Midday rest in shade –

Rest during peak afternoon heat to reduce exposure

Traditional hydration –

Use of buttermilk, panaka, and tender coconut water

Vernacular architecture –

Buildings designed with natural ventilation, shaded courtyards, and heat-resistant materials



Figure 2.1. Locally adopted passive cooling practice using green net shading at public spaces in Ballari district, commonly seen across North Interior Karnataka.

2.7 Heat Season Outlook

Seasonal outlooks issued by the India Meteorological Department (IMD) indicate that during the hot weather season (March–May), temperatures are likely to remain above normal across many parts of the country. Probabilistic forecasts suggest a moderate to high likelihood (around 55–75%) of above-normal maximum temperatures and a similar likelihood (45–75%) of above-normal minimum temperatures during the season (refer to [Figure 2.2](#)).

Heatwave outlooks further indicate an increased likelihood of above-normal heatwave days in several regions, particularly in plains and interior areas, with potential increases of about 10–20% compared to the long-term average. These conditions suggest a higher probability of sustained heat stress during the pre-monsoon period.

For Karnataka, this implies an increased likelihood of above-normal temperatures and enhanced heat stress conditions, particularly in North Interior districts. While the exact number of heatwave days may vary regionally, the outlook indicates the need for preparedness for prolonged and intensified heat conditions during the season.

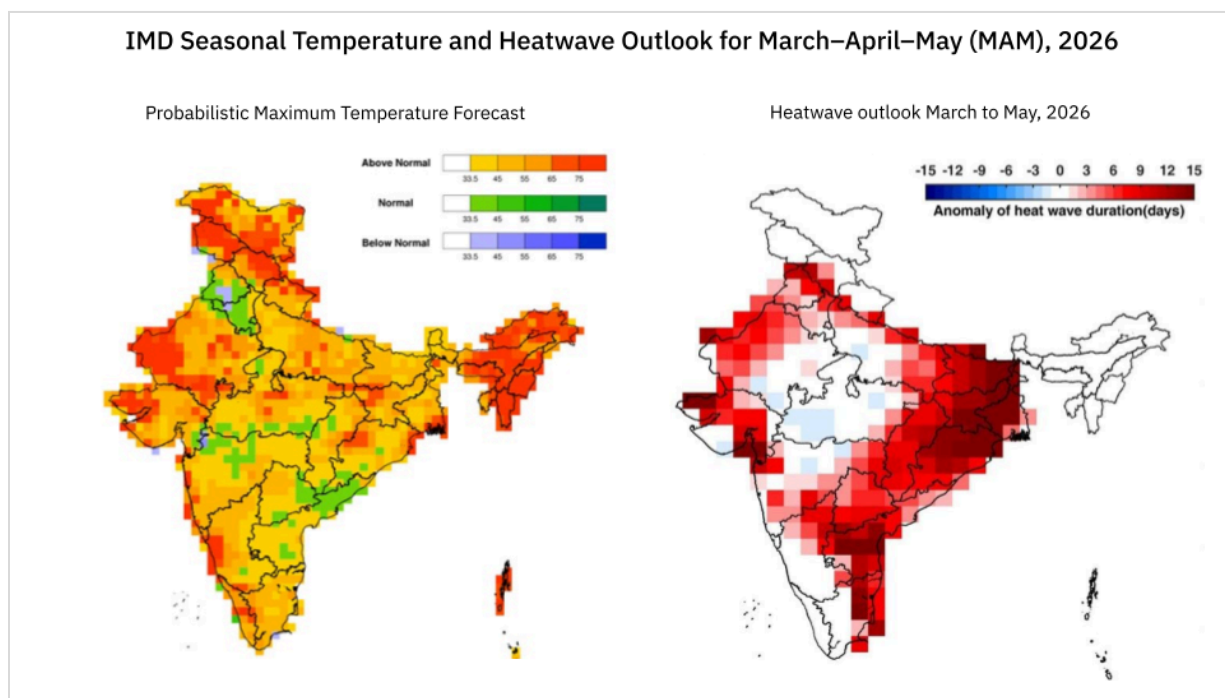


Figure 2.2. IMD Seasonal Outlook for Maximum Temperature (Tmax) and Heatwave Conditions for March–April–May (MAM), 2026

Chapter 3 — Institutional Mechanism for Heat Wave Management

3.1 Disaster Management Framework

Heat wave management in Karnataka is implemented within the institutional framework established under the Disaster Management Act, 2005 and its subsequent amendments. The Act provides a three-tier structure for disaster management at the national, state, and district levels, comprising the National Disaster Management Authority (NDMA), State Disaster Management Authority (SDMA), and District Disaster Management Authorities (DDMAs).

National policies and plans, including the National Policy on Disaster Management (NPDM) and the National Disaster Management Plan (NDMP), guide preparedness and response actions for disasters. The National Disaster Management Authority has issued the “Guidelines for Preparation of Action Plan – Prevention and Management of Heat Wave,” which provide a broad framework for the formulation of State and District Heat Wave Action Plans. Within this framework, multiple government departments coordinate preparedness, early warning dissemination, and response activities.

3.2 Institutional Roles and Responsibilities

3.2.1 National Level

At the national level, the India Meteorological Department (IMD) monitors meteorological conditions and issues forecasts and warnings related to heatwave conditions. The National Disaster Management Authority (NDMA) provides national guidance and coordination for disaster preparedness and response.

3.2.2 State Level

At the state level, the Department of Revenue (Disaster Management), in coordination with the Karnataka State Disaster Management Authority (KSDMA) and the Department of Health and Family Welfare, serves as the nodal authority for heatwave preparedness and response.

Heatwave management requires coordination among multiple departments including Health, Water Resources, Rural Development and Panchayat Raj, Urban Development, Agriculture, Horticulture, Animal Husbandry, Labour, and Energy. Each department implements preparedness and response measures within its respective mandate.

The Karnataka State Natural Disaster Monitoring Centre (KSNDMC) supports the state by monitoring weather conditions and coordinating technical inputs related to early warning systems.

Roles of SDMA and KSNDMC		
Function	SDMA	KSNDMC
Primary mandate	Disaster preparedness, response, and inter-agency coordination under the Disaster Management Act, 2005	Meteorological monitoring, climate data management, and technical support to SDMA
Role in Heat Action Plan	Overall plan oversight, inter-department coordination, NDMA reporting	Weather monitoring, technical analysis, and data support for early warning
Alert declaration	Red alerts declared by KSNDMC based on the inputs from the IMD	Provides technical inputs (IMD forecasts and AI-model outputs) that inform alert decisions
During heat events	Coordinates inter-department response and state-level decision making	Maintains monitoring systems and provides forecast updates
Post-season	Leads review of response and governance performance	Supports technical evaluation of forecast performance

3.2.3 District-Level Governance

At the district level, the Deputy Commissioner, who serves as the Chairperson of the District Disaster Management Authority (DDMA), coordinates preparedness and response activities. District administrations implement actions in accordance with the District Heat Wave Action Plan and the State Heat Wave Action Plan.

Member	Role in Heat Response
Deputy Commissioner (Chair)	Declaration authority; final decision on resource deployment
CEO, Zilla Panchayat	Rural coordination; MGNREGS work restriction enforcement; PDO network
District Health Officer	Health system preparedness at the Primary Health Centre (PHC) level, capacity building through training and adequate stocking of ORS and other essential medicines for the management of heat stress.; IHIP reporting oversight; heat

Member	Role in Heat Response
	death certification. Ambulance pre-positioning; heatstroke call priority protocol
Executive Engineer, PWD / RDPR	Water tanker routes; rural infrastructure access
Executive Engineer, ESCOM	Ensuring uninterrupted Power to hospitals and health care facilities
District Labour Officer	Issue appropriate advisories to factories and other establishments engaging outdoor workers, ensuring employer compliance with prescribed work restrictions.
District Education Officer	To avoid peak heat outdoor activity. School hour adjustments, wherever possible.
Heat Wave Nodal Officer	Day-to-day plan coordination; AI dashboard monitoring; SDMA reporting
ULB	Opening of parks for extended hours during the heat wave period. Ensure portable drinking water supply; street vendor advisories

3.2.4 Taluk-Level Governance

At the taluk level, the Tahsildar, in coordination with the Taluk Health Officer (THO) and other departmental officials, supports implementation of preparedness and response actions within their jurisdiction.

Designation	Role in Heat Response
Tahsildar	Coordinates rural response at taluk level and supports implementation of district instructions across Gram Panchayats.
Taluk Health Officer (THO)	Oversees health system preparedness and monitoring of heat-related illness reporting from PHCs.
Taluk Labour Inspector	Ensures compliance with outdoor work safety measures during heat alerts.
Panchayat Development Officer (PDO)	Coordinates last-mile response at Gram Panchayat level, ensuring drinking water, including cooling centres and local response measures.

Designation	Role in Heat Response
Chief Officer	Coordinates last-mile response at Urban Wards, ensuring drinking water, including cooling centres and local response measures.

3.2.5 Greater Bengaluru Area

In the Greater Bengaluru area, disaster management coordination is undertaken by the Greater Bengaluru Area Disaster Management Authority, led by the Chief Commissioner. Disaster response is coordinated across the five City Corporations of Bengaluru: North, South, East, West, and Central Bengaluru.

3.2.6 Last-Mile Implementation at Gram Panchayat Level

At the Gram Panchayat level, the Panchayat Development Officer (PDO), and frontline health workers such as ASHA and ANM support last-mile implementation of heat response measures. Their responsibilities include community awareness, identification of vulnerable households, support to cooling centres/covered open space were established, and coordination with taluk authorities during heat alerts.

Operational procedures for last-mile response are described in Chapter 5 (Response Framework) and Chapter 6 (Health System Preparedness).

3.3 Role of Community-Based Organisations and Civil Society

Community-based organisations (CBOs), non-governmental organisations (NGOs), self-help groups (SHGs), Mahila Sanghas, youth groups, and other local institutions play an important role in supporting heatwave preparedness and response at the community level.

Community-based organisations, NGOs, SHGs, and local groups may support the following activities:

Awareness and Outreach: Dissemination of heat safety messages using IEC materials	Support to vulnerable groups: Identify and support high-risk individuals by facilitating access to water, cooling spaces, and timely care during heat alerts.
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Facilitation of cooling measures:

Community groups may assist in facilitating access to shaded areas, drinking water, and cooling spaces during public events and heat alert periods.

Local monitoring:

Helping identify high-risk households and local heat stress conditions

Coordination Mechanism – District and local authorities shall engage with NGOs and community groups through a structured coordination mechanism led by the District Disaster Management Authority (DDMA).

This includes

- DDMA (overall coordination and integration with district response)
- District Administration / Line Departments
- Gram Panchayats / Urban Local Bodies
- Ward-level committees
- Existing SHG and community networks (including Mahila Sanghas)

Heat forecasts and alert information generated through KSNDMC and the state heat-risk system shall be disseminated to community-based organisations, SHGs, and local groups to strengthen last-mile communication and response.

3.4 Emergency Operations Centres

The State Emergency Operations Centre (SEOC) functions as the central coordination point for disaster response at the state level and operates on a 24×7 basis during severe events. The SEOC coordinates with relevant departments and district authorities to monitor the evolving situation and facilitate response actions.

At the district level, District Emergency Operations Centres (DEOCs) coordinate response activities with local authorities and departmental officials. These centres support communication, coordination, and information sharing during heatwave events.

Emergency Operations Centres for Heatwave Management		
Level	Centre	Key Functions
State Level	State Emergency Operations Centre (SEOC) – KSNDMC, Bengaluru	Disseminates heatwave alerts to districts, monitors the statewide situation, and prepares situation reports for the State Government and national authorities.
District Level	District Emergency Operations Centres (DEOCs)	Coordinate response actions within the district, maintain communication with SEOC, and support implementation of heat response measures through district departments.

The operational early warning system, including forecast generation, alert dissemination, and decision-support tools, is described in detail in Chapter 4.

3.5 Heat Season — Start and End

For the purpose of preparedness and surveillance, the heat season in Karnataka is defined from 1 March to 30 June each year.

During this period:

- Heat monitoring and AI-model forecasting systems operate continuously
- Health surveillance through the IHIP system is activated
- District administrations maintain preparedness for heat alerts.

Outside the heat season, monitoring and AI-model forecasting continues as part of routine weather and disaster risk monitoring.

Annual Governance Cycle	
Period	Key Activities
January – February	Review of previous season and update of the Heat Action Plan.
February	State-level coordination meetings and district preparedness reviews.
1 March	Start of heat season monitoring and reporting.

March – June	Heatwave monitoring, alerts, and response actions as required.
June –July	Post-season review and performance assessment and Plan revision and preparation for next season.

3.6 Escalation and De-Escalation of Heat Alerts

Escalation and de-escalation of heat alerts are administrative decisions taken by designated authorities based on technical inputs such as IMD forecasts, AI-Model forecasts, observational data, and the heat risk assessment system described in Chapter 4.

Administrative Decisions of Escalation and de-escalation of heat alerts			
Transition	Authority	Trigger Basis	Administrative Action
Yellow → Orange	Deputy Commissioner	Technical inputs indicating severe heat risk	Deputy Commissioner activates district response measures.
Orange → Red	Commissioner, KSDMA (State Nodal Officer) in coordination with Director KSNDMC	Severe heat conditions affecting multiple districts or extreme risk	State-level declaration of Red alert and activation of state-level coordination.
Red → Orange	Commissioner, KSDMA	Sustained reduction in heat risk	De-escalation authorised by State Nodal Officer.
Orange → Yellow	Deputy Commissioner	Conditions improving below severe thresholds	District response scaled down while maintaining monitoring.
Yellow → Green	Deputy Commissioner	Heat risk conditions no longer present	The district returns to normal monitoring status.

3.7 Financial Support for Heatwave Response

Heat wave has been included in the list of notified calamities, thereby enabling financial assistance under the State Disaster Response Fund (SDRF) and the National Disaster Response Fund (NDRF). This facilitates State and District administrations to undertake response and relief measures in accordance with the guidelines issued by the Ministry of Home Affairs.

Further, medium- and long-term heat mitigation projects may be undertaken under the State Disaster Mitigation Fund (SDMF).

Effective heatwave response depends on clear authority, coordinated action across departments, and reliable communication between state and district administrations. The governance framework described in this chapter provides the institutional foundation for implementing the Early Warning System (Chapter 4) and operational response measures (Chapter 5).

Chapter 4 — Early Warning System

4.1 Role of Early Warning in Heat Risk Management

Extreme heat is a slow-onset hazard. Unlike sudden disasters such as floods or earthquakes, heat conditions usually build over several days. This lead time makes heat particularly suitable for early warning and anticipatory action. Heat-related illness and mortality are largely preventable when governments act before dangerous conditions develop. Research from India shows that the time lag between extreme heat exposure and mortality is typically 0–1 day, meaning deaths often occur on the same day as extreme heat or shortly afterwards. Because this lag is very short, response measures taken after temperatures have already risen may be too late to prevent health impacts.

The purpose of the Early Warning System (EWS) in Karnataka’s Heat Action Plan is therefore to provide government authorities with timely, reliable, and actionable information on developing heat risk so that protective measures can be activated in advance. Forecasts with a lead time of up to seven days allow departments and district administrations to prepare before dangerous conditions occur. This lead time enables officials to activate preparedness measures such as cooling centres, water supply arrangements, health system readiness, and public advisories.

Operational Role of Early Warning – Early warning supports three key functions

Advance Awareness

Forecasts provide several days of lead time to anticipate rising heat conditions.

Targeted Preparedness

District/Sub-District administrations can identify high-risk regions and prepare cooling centres, water supply, health services, and field outreach.

Timely Public Communication

Authorities can communicate protective advice to the public before dangerous heat exposure occurs.

4.2 Structure of the Early Warning System– two-tier architecture

Karnataka’s Early Warning System is built on a two-tier architecture that separates official authority from operational decision support.

The India Meteorological Department (IMD) issues the official district-level heat alerts. These alerts form the legal basis for response and trigger mandatory government action under the Heat Action Plan.

To support preparedness at a more local scale, a taluk-level heat stress prediction system has been developed by ARTPARK in collaboration with IISc CAOS, KSNDMC, and KSDMA. This system translates weather forecasts into localized heat risk assessments for each taluk.

This design follows a key principle of operational forecasting: official alerts must come from the national meteorological authority, while operational planning benefits from more detailed local information.

Tier 1	Tier 2
IMD District Alert: Official heat alert issued by IMD for the district. This alert triggers mandatory government response under the Heat Action Plan.	AI Model Taluk Level Alert: AI Model Taluk-Level Risk Assessment Taluk-level heat stress risk scores derived from an ensemble of global AI weather models. These outputs support district administrations in identifying high-risk taluks and planning early preparedness actions.

AI-based weather models also provide practical operational advantages. They can run efficiently on relatively small computing systems, allowing frequent forecast updates and the ability to analyse past weather events. This capability supports the development of locally relevant heat stress indicators and enables taluk-level downscaling of forecast information, helping officials identify emerging heat risk conditions more quickly.

Important Governance Principle:

The AI-based system supports and refines response planning. It does not replace the official heat wave alerts issued by the India Meteorological Department (IMD).

4.3 Observational Monitoring Network (KSNDMC)

The Karnataka State Natural Disaster Monitoring Centre (KSNDMC) has established a dense network of GPRS-enabled, solar-powered telemetric weather stations across all 850 hoblis and 176 microwatersheds in Karnataka, providing high spatial and temporal resolution data at

15-minute intervals (see Figure 4.1) This state-of-the-art system captures key meteorological parameters such as temperature, humidity, wind, and rainfall, enabling near-real-time monitoring and decision-making at the micro level. The high-density and quality-controlled dataset supports accurate identification of localized weather variability and extreme events, facilitating timely advisories to stakeholders. Additionally, this dataset plays a critical role in improving forecast accuracy by enabling bias correction and regional refinement of AI-based weather prediction models, thereby strengthening early warning systems and risk-informed planning.

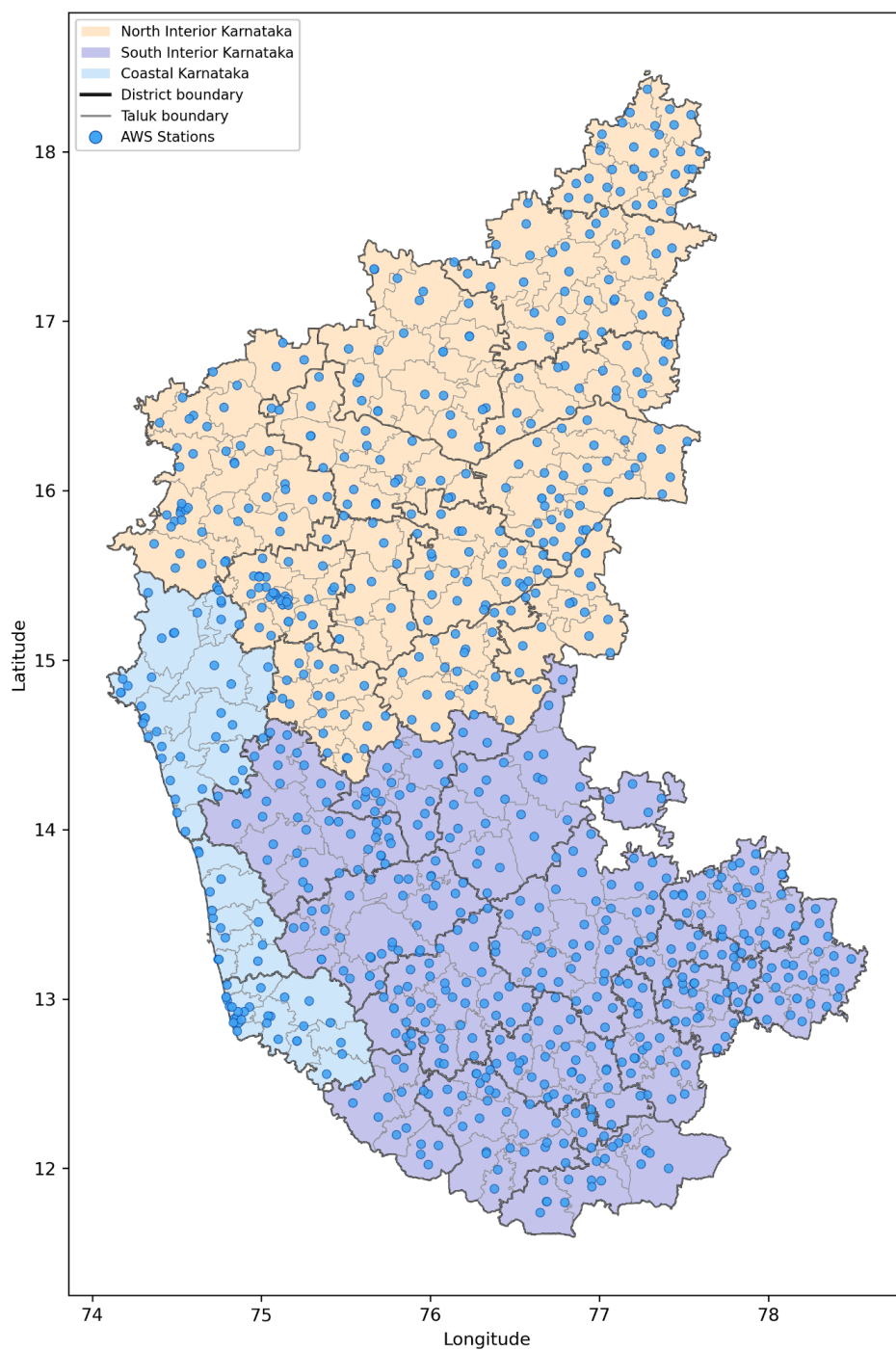
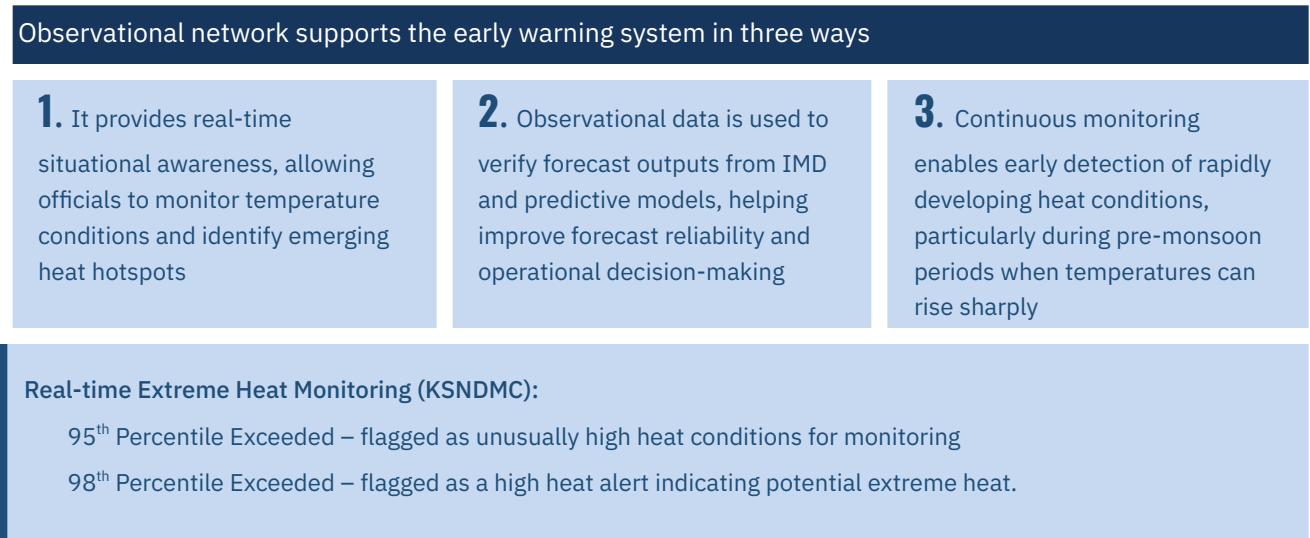


Figure 4.1: KSNDMC’s Telemetric Weather Stations network across the State. IMD meteorological subdivisions are indicated using three distinct colors: orange (North Interior), purple (South Interior), and blue (Coastal).



Flagged locations are immediately highlighted on the monitoring dashboard and notified to concerned authorities through automated alerts.

4.4 AI-Based Taluk-Level Heat Prediction System

To complement the official forecast alerts and observational monitoring, Karnataka has developed a taluk-level heat prediction system operated by ARTPARK-IISc in collaboration with CAOS-IISc under the oversight of KSNDMC.

The system uses outputs from several state-of-the-art global AI-based numerical weather prediction models to generate taluk-level heat risk forecasts.⁸ AI-based weather models allow rapid generation of forecasts and flexible analysis of heat stress indicators, making them well suited for operational early warning systems. These models use machine-learning methods

⁸ The heat risk forecasting system integrates six state-of-the-art AI-based numerical weather prediction models – Pangu-Weather, GraphCast, FuXi, AIFS, and Aurora, to generate forecasts of heat stress variables including WBGT, Heat Index, Tmax, Tmin and EHF. Model outputs are post-processed through bias correction and quantile mapping to improve accuracy and reliability of heat stress estimates across Karnataka's diverse climate zones.

trained on decades of atmospheric reanalysis data to simulate weather patterns and forecast atmospheric conditions.

Rather than relying on a single model, the system compares outputs from multiple models. When the models show similar results, forecast confidence is higher. When large differences appear between model outputs, the system flags the discrepancy and compares the forecasts with recent observational data from the KSNDMC weather station network.

This comparison helps identify the forecast that most closely matches observed conditions and improves the reliability of taluk-level heat risk assessment.

Each day the system generates a seven-day outlook of heat risk for all 236 taluks of Karnataka. From these forecasts, several indicators of heat stress are derived to help assess potential health impacts and guide preparedness actions.

Heat Stress Indicators		
Indicator	What It Measures	Why It Matters
Excess Heat Factor (EHF)	Multi-day heat anomaly relative to local climate	Captures cumulative heat stress that develops over several days
Extended Heat Index (HI)	Combined measure of temperature, humidity	Important for humid coastal districts
Wet Bulb Globe Temperature (WBGT)	Temperature, humidity, radiation and wind	Standard metric for occupational heat stress
Maximum Temperature (T_{max})	Daily peak temperature	Primary variable used for heatwave classification
Minimum Temperature (T_{min})	Night-time temperature	High Tmin indicates failure of night-time cooling
Temperature–Humidity Index (THI)	Combined effect of air temperature and relative humidity on animals	High temperature combined with humidity reduces the ability of animals to cool themselves through sweating and respiration, increasing the risk of heat stress.

Resolving Forecast 2-Tier Model Forecast Differences (refer, [Figure 4.2](#))

- Daily heat risk forecasts combine IMD district forecasts, AI-based taluk analysis, and KSNDMC observational data.
- When forecasts are consistent, the AI-based system supports taluk-level risk assessment and preparedness planning.
- If forecasts differ, recent KSNDMC observations are reviewed to assess evolving heat conditions.
- As a guiding operational principle, IMD alerts take precedence to ensure alignment with national warning protocols and to avoid underestimation of risk; these alerts are subsequently refined to the taluk level using observational data from the Karnataka State Natural Disaster Monitoring Centre (KSNDMC) to support localized decision-making.

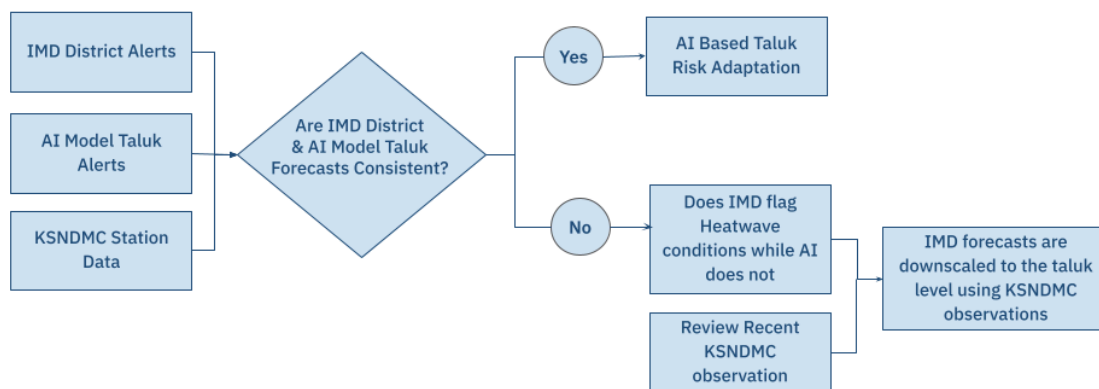


Figure 4.2: Decision pathway for Multi-Source Heat Risk Forecast Integration (KSNDMC & ARTPARK-IISc).

4.5 How Officials Use the Early Warning System – Namma Karnataka Heat-Risk Dashboard

District and taluk officials access the Early Warning System through a web-based dashboard (mobile compatible) developed and maintained by ARTPARK-IISc under KSNDMC oversight. Access is provided to designated DDMA nodal officers in all districts, as well as to KSNDMC and SDMA at the state level.

The dashboard provides a centralized platform for monitoring taluk-level heat risk conditions and preparedness actions. It allows officials to visualise emerging heat risks, coordinate response across departments, and track field-level preparedness measures.

The system is updated daily at 8:00 AM and 4:00 PM, providing a seven-day forward outlook of heat risk across Karnataka. District Disaster Management Authorities use this information to guide preparedness planning, sector coordination, and public communication.

Prior to publication on the dashboard, the forecast outputs are reviewed by a designated technical coordination group comprising representatives from KSNDMC, the Health Department, IMD Regional Office, CAOS IISc, and the ARTPARK–IISc technical team. This review ensures consistency between observational data, official IMD forecasts, and the taluk-level heat risk assessment before information is disseminated to district authorities.

The AI-based system supports early preparedness decisions by identifying areas where heat risk may develop. Operational decisions are informed through a combined assessment of IMD district-level forecasts, AI-based taluk-level risk analysis, and real-time observations from the KSNDMC monitoring network.

Namma Karnataka Heat-Risk Operational Dashboard Features

The dashboard provides the following capabilities:

- Taluk-level heat risk maps with a seven-day forecast timeline
- Sector-specific risk indicators and recommended preparedness actions
- Reporting interface for field-level actions taken by departments
- District-level and state-level summary reports for coordination and review

The system presents risk information through colour-coded maps and indicator panels, allowing officials to quickly identify high-risk taluks and prioritise response actions.

4.6 Operational Decision Framework

The dashboard provides heat risk information to support operational decision-making at district and state levels. The following table outlines how officials should interpret the composite risk levels and the corresponding preparedness actions.

Operational Decision Framework				
AI Composite Risk Level	What It Means Operationally	Who Acts	Recommended Action	Does It Trigger a Declaration?
Low	Seasonal heat conditions. No unusual risk at taluk level.	DDMA Nodal Officer	Routine monitoring.	No
Moderate	Heat conditions developing. Some indicators above threshold; increased risk for vulnerable groups.	DDMA Nodal Officer	Review vulnerable taluk list. Confirm cooling centres and ORS stocks are ready. Brief CMO.	Advisory stage & Yes — Yellow declaration trigger
High (2 consecutive days)	Persistent heat stress risk (typically when elevated heat conditions are expected for two consecutive days). Multiple indicators elevated and population at risk.	Deputy Commissioner	Declare Yellow within 3 hours. Activate pre-positioning. Issue public advisory.	Yes — Orange declaration trigger
Extreme (any day)	Severe heat stress conditions are likely. Multiple indicators at extreme thresholds simultaneously or IMD severe heatwave warning	Deputy Commissioner + State Nodal Officer	Declare Red alert within 2 hours. Notify the State Nodal Officer and activate emergency response and EOC standby.	Yes — Red declaration trigger

4.7 Governance and Accountability of the AI System: Operational Responsibility

The ARTPARK–IISc prediction system operates under the oversight of KSNDMC, which serves as the government anchor institution. KSNDMC maintains formal data-sharing arrangements with the India Meteorological Department (IMD) and provides oversight of the system’s government-facing functions.

ARTPARK has a Memorandum of Understanding with IMD that enables access to authorised IMD District level alert forecast and observational products required for the operation of the District-level heat prediction system. These data are used in conjunction with KSNDMC’s observational monitoring network and the AI-based risk analysis to generate heat risk assessments for district authorities.

The State Nodal Officer (Revenue and Disaster Management Department) is responsible for ensuring that the system is integrated into district operations and that DDMA Nodal Officers are trained and equipped to use the Early Warning System.

4.8 Failure Modes and Fallback Protocols

Operational forecasting systems occasionally face technical or data-related disruptions. The following table describes common failure scenarios, their operational impact, and the mitigation measures built into the Early Warning System. District officials need to be aware of these situations and the fallback mechanisms available.

Failure Mode	Likelihood	Operational Impact	Mitigation in Place
AI model compute server unavailable	Very-Low	Taluk-level model cannot run on the primary system	The prediction system runs on two compute environments: an in-house cluster and a cloud backup system. If the primary server is unavailable, model runs automatically shift to the backup environment to maintain forecast continuity.
Initial conditions unavailable for AI model run	Very-Low	AI model cannot run for that forecast cycle	IMD forecast is used and downscaled using the AI-trained model to generate taluk-level risk estimates.
IMD forecast data feed unavailable (network or server issue)	Very-Low	Automated forecast ingestion cannot occur	Official IMD weather bulletins are used as the primary reference until the data feed is restored.
KSNDMC statewide observational data unavailable	Low	Real-time station observations unavailable across the state	Monitoring continues using IMD observations and forecast products until KSNDMC data services are restored.
Model over-prediction (false alarm)	Low-Moderate, especially early in season	Alert fatigue and unnecessary preparedness actions	Periodic model calibration by ARTPARK-IISc. Thresholds adjusted as required.
Model under-prediction (missed event)	Low -Moderate (high consequence)	Districts/Taluks may not prepare in time	IMD heatwave alerts and KSNDMC observations serve as parallel signals
Dashboard inaccessible (server or connectivity issue)	Low	District officials cannot access taluk-level dashboard	Email/ WhatsApp summary sent to DDMA nodal officers. KSNDMC was notified of the escalation.

Operational Safeguard

The most important structural mitigation is the one built into the two-tier architecture itself: the IMD official alert is always the safety net. No failure of the AI system — however serious — removes the mandatory response obligations triggered by an IMD Heat Wave Alert. The AI system adds precision and early warning; IMD provides the floor below which response cannot fall.

4.9 Performance Review and Accountability

The Early Warning System will be regularly reviewed to ensure reliability, transparency, and operational usefulness.

- In-season review: During the heatwave season (March–June), model outputs and observed heat conditions will be reviewed every week or fortnight by the technical team to assess forecast performance and identify any operational issues.
- Quarterly technical review: ARTPARK, IISc CAOS, and KSNDMC will jointly review model outputs against observed heat events and operational response outcomes.
- Post-season evaluation: At the end of the heat season, a detailed performance report will be prepared and submitted to an external expert review committee constituted by KSNDMC and KSDMA. The report will assess forecast accuracy, operational performance, and recommended improvements for the following season.
- Annual simulation exercise: A system simulation exercise will be conducted each February involving DDMA officers, CMOs, KSNDMC, and the ARTPARK–IISc technical team to test dashboard access, fallback procedures, and decision workflows.

4.10 Last-Mile Alert Dissemination

Early warning is effective only when alerts reach communities in time and in a form that people can understand and act upon. Karnataka’s dissemination system therefore focuses on delivering clear heat advisories to specific audiences through appropriate communication channels.

Different stakeholder groups receive alerts through defined channels with clear responsibilities for dissemination. The table below summarises the primary communication pathways.

Last-Mile Alert Dissemination				
Audience	Channel	Message Format	Responsible Actor	Timing
SDMA / State Nodal Officer	Dashboard + automated email	District heat risk summary and high-risk taluks	ARTPARK–IISc	Daily
DDMA Nodal Officers	Dashboard (with WhatsApp fallback if unavailable)	Taluk-level risk scores and indicators	ARTPARK + KSNDMC	Daily
DHO / Taluk Health Officer	SMS / departmental communication	Health advisory linked to alert level	DDMA → Health Dept	Within 2 hours
ASHA / ANM workers	Supervisor WhatsApp groups / IVR	Simple heat safety advisory	Health Department	During high-risk alerts
Urban public	ULB, Social media, KSNDMC Dashboard	Public heat advisory and helpline	DDMA + Information Dept	During alerts
Rural public	Gram Panchayat loudspeakers, notice boards, Social media, KSNDMC Dashboard	Public heat advisory	PDO / GP President	During alerts
Outdoor workers	Labour department advisories, Social media	Work-hour restrictions and safety measures	Labour Department	During high-risk alerts

4.11 Long-Term Strengthening of the Early Warning System

- Integrating health surveillance data: daily heat illness reporting from the health surveillance system described in Chapter 6 will be used to validate and improve heat risk forecasts. This integration will be implemented through the existing collaboration between the Health Department, KSNDMC, and the ARTPARK–IISc technical team. Over time, the analysis of health outcome data will help refine region-specific heat stress thresholds and risk indicators based on observed health impacts.

- Enhancing forecast granularity: progressively improving heat risk forecasts to the Gram Panchayat level through AI-based downscaling, leveraging KSNDMC's dense weather station network together with satellite observations to better capture local heat conditions.
- Supporting field-based heat observations: conducting pilot observational studies using WBGT to identify outdoor heat-stress hot-spots in urban areas and generate ground-based data to support validation of heat-stress forecasts.
- Assessment of AI weather models for extreme events: evaluating the performance and operational usefulness of AI-based forecasting models in predicting extreme heat and other high-impact weather events.
- Development of high-resolution gridded station datasets for Karnataka to improve spatial representation of temperature and heat stress conditions

This chapter outlines both the capabilities and current limitations of the Early Warning System. District officials using the system are encouraged to apply it carefully in operational decision-making and to report instances where forecasts did not match observed conditions. Such feedback is essential for improving the system over time. Post-season performance reviews depend on DDMA officers and Chief Medical Officers identifying situations where forecasts differed from actual conditions—for example, when a taluk was classified as low risk but heat-related impacts were observed, or when high risk was forecast but conditions remained normal. These field observations provide critical information for refining model thresholds and improving the accuracy of the Early Warning System in subsequent seasons.

Chapter 5 — Response Framework

5.1 Overview of Response Framework

The Heat Action Plan adopts a coordinated, multi-department response framework based on a colour-coded alert system (Green, Yellow, Orange, Red) to guide timely actions across sectors. The response is led by the District Disaster Management Authority (DDMA) and district administration, ensuring coordinated implementation by line departments and local bodies. The framework emphasises early action, timely escalation, and protection of vulnerable groups to reduce heat-related risks.

5.2 Heat Alert Activation

The heat alert system, including indicators, thresholds, and decision criteria, is described in Chapter 4. Alerts are issued using a multi-indicator approach and are translated into sector-wise response actions as outlined in this chapter and detailed in Annexure X.

5.3 Escalation and Decision Protocol

Heat alerts are reviewed regularly based on forecast and observed conditions. Escalation is undertaken when heat intensity increases, persists over consecutive days, or when multiple indicators show elevated risk.

The final alert level is determined based on the highest severity observed across indicators, ensuring a precautionary and impact-based approach. In situations where confidence in derived indices is limited, alerts may be based on reliable primary indicators such as maximum temperature or official IMD heatwave declarations.

This approach ensures timely and consistent activation of response measures across departments.

5.4 Institutional Coordination Mechanism

Implementation of the Heat Action Plan is coordinated through a district-level, multi-department mechanism led by the DDMA and Deputy Commissioner. Line departments,

including Health, RDPR, UD, Labour, Agriculture, Animal Husbandry, Education, Power (ESCOM), and Fire Services, are responsible for sector-specific actions as defined in their SOPs.

Coordination is maintained through regular review meetings, inter-departmental communication channels, and control room mechanisms. Departments share updates on preparedness, response actions, and emerging risks, enabling timely decision-making and escalation.

At the field level, Panchayats, Urban Local Bodies, and frontline workers support implementation and ensure that actions reach communities effectively.

5.5 Translation of Alerts into Actions

Each alert level triggers predefined actions across sectors, ensuring a structured and consistent response. Departments implement actions based on the alert level, with increasing intensity from preparedness (Green) to emergency response (Red).

Detailed sector-wise actions are provided in Annexure 1 - 10. The table below (table 3) provides a quick reference for department-wise actions across alert levels to support rapid decision-making at the district level.

Table 3: Department Quick Action Matrix – Refer to Annexure for the detailed SOP

Department	Pre-Season	Yellow	Orange	Red
Health	Preparedness	Awareness	Treat cases	Emergency response
Water	System check	Monitor supply	Tankers deploy	Continuous supply
Labour	Site readiness	Worker awareness	Adjust timings	Restrict exposure
Power	Infra readiness	Monitor load	Priority supply	Uninterrupted power
Agriculture	Advisory prep	Irrigation advisory	Crop protection	Emergency support
Livestock	Awareness	Prevent stress	Cooling measures	Emergency care
Education	Facility readiness	Avoid outdoor	Adjust schedule	Closure/strict measures
Fire	Equipment ready	Vigilance	Active response	Emergency response

5.6 Communication and Dissemination Strategy

Effective communication is essential to ensure that heat alerts translate into timely protective actions. Advisories are disseminated through multiple channels, including WhatsApp groups, local media, FM radio, public address systems, and field-level networks such as ASHA workers, Anganwadi Centres, and Panchayats.

Messages are issued in simple and locally understandable language (primarily Kannada) and include clear guidance on hydration, avoiding peak heat exposure, and recognising early symptoms of heat illness.

Departments disseminate sector-specific advisories through their respective networks to ensure outreach to vulnerable groups.

5.7 Focus on Vulnerable Groups

The response framework prioritises protection of vulnerable populations, including the elderly, children, outdoor workers, people with comorbidity, urban poor, farmers, and livestock.

Departments integrate targeted measures within their sectoral actions to reduce exposure, ensure access to essential services, and provide timely support during heat events.

5.8 Monitoring, Reporting and Dashboard

The Heat Action Plan is supported by a district-level heat monitoring dashboard to track alerts, sector-wise actions, and emerging risks. Departments update key indicators related to preparedness, service delivery, inspections, and incidents.

During higher alert levels (Orange and Red), updates may be provided on a daily basis to support timely response and escalation. The dashboard enables the District Administration and DDMA to monitor implementation, identify gaps, and ensure coordinated action across sectors.

Chapter 6 — Health System Preparedness

6.1 Community Awareness and Public Health Advisory

Timely, locally relevant health advisories are among the most effective tools for reducing heat-related illness and deaths. Communities that receive clear guidance on protective actions during extreme heat are better able to prevent health impacts and seek medical care when needed.

In Karnataka, public health advisories are disseminated through PHCs, ASHA workers, Anganwadi Centres, radio, local announcements, WhatsApp groups, and the state dashboard.

Core Heat Safety Messages for the Public

- Drink water regularly — do not wait until thirsty. During peak heat, drink at least one glass of water every hour.
- Avoid outdoor or intense physical activity during peak heat hours (11 AM–4 PM), especially during Orange and Red alert days. If outdoor work cannot be avoided, take rest breaks in the shade every 30–45 minutes.
- Keep the body cool. Use a wet cloth to wipe the face, neck, and hands or sprinkle water on the body, especially during Yellow, Orange, and Red alert days.
- Use locally familiar hydration options such as *majjige* (buttermilk), *bela paanaka* (jaggery water), *nimbu paani* with salt, tender coconut water, or ORS.
- Wear loose, light-coloured clothing. Use a cap, hat, scarf, or umbrella to protect the head and face when outdoors.
- Watch for warning signs of heat illness: dizziness, nausea, headache, dark-coloured urine, confusion, or absence of sweating.
- Heatstroke is a medical emergency. Call “108” immediately if a person becomes unconscious or has very hot dry skin.

Urine colour is a simple indicator of hydration status. A urine colour chart will be displayed at PHCs, Anganwadi Centres, and major worksites to help communities recognise dehydration.

Populations Requiring Targeted Outreach During High Heat Alerts		
Population Group	Key Risk	Primary Outreach Channel
Elderly persons living alone	Higher risk of dehydration and delayed medical response during heat events	Regular monitoring through ASHA workers, including home visits or phone checks, especially during weeks when Orange or Red alerts are issued
Persons with comorbidities	Medication-induced impaired thermoregulation Fluid restriction and kidney disease	Dissemination via hospitals, pharmacies, dialysis/nephrology centres ASHA-led community outreach during Orange/Red alerts
Outdoor workers	Prolonged exposure to direct sunlight and physical exertion	Worksite advisories through contractors, labour departments, farmer communication channels, and worker outreach programmes
Infants and children under five	Limited ability to regulate body temperature and communicate symptoms	Guidance to caregivers through Anganwadi Centres, Kusina Mane and ANM workers
Pregnant women	Increased metabolic heat load and physiological vulnerability	Advisory through ASHA workers and maternal health programmes

6.2 Health Facility Readiness

6.2.1 Facility Preparedness

All health facilities should ensure the availability of essential supplies and equipment required for the management of heat-related illness. These include oral rehydration salts (ORS), intravenous fluids such as normal saline and Ringer's lactate, ice packs or cold compress materials, and basic monitoring equipment. Facilities should also ensure that thermometers and essential first-aid materials are available for prompt clinical assessment.

Primary Health Centres, Taluk Hospitals, and District Hospitals should maintain adequate stocks based on their expected patient load and past seasonal experience. Facilities located in high-risk districts may require additional supplies during peak heat periods.

6.2.2 Treatment Area Readiness and Cooling Measures

Facilities should ensure that treatment areas are prepared to manage heat illness patients safely and comfortably. This includes:

- shaded or ventilated waiting areas for patients and attendants
- access to safe drinking water at health facilities
- fans or other basic cooling arrangements in treatment and waiting areas
- availability of space for rapid cooling of severe heat illness patients when required.

Low-Cost Cooling Measures

Simple, low-cost cooling measures can improve comfort and safety for patients and staff during extreme heat.

- Use evaporative cooling screens: Place wet cloth curtains, jute screens, or locally available mats over windows or door openings. Air passing through the damp material cools before entering the room.
- Reduce entry of hot air and sunlight: During peak heat hours (11 AM – 4 PM), windows and doors exposed to direct sunlight should be shaded or partially closed to prevent hot air and direct sunlight from entering treatment areas (Refer to Annexure 10).
- Use ventilation carefully: Avoid opening windows that bring in very hot outdoor air during peak afternoon (11 AM – 4 PM) heat. Ventilation may be used during early morning or evening hours when outdoor temperatures are lower.
- Roof heat reduction: Facilities with exposed concrete roofs may use simple measures such as reflective white roof coating, temporary roof shading, or periodic roof wetting to reduce indoor heat (Refer to Annexure 11).

6.3 Clinical Management and Referral Chain

Heat-related illness ranges from mild conditions to life-threatening heatstroke. Early recognition and timely response at each facility level prevents progression and reduces mortality.

The Spectrum of Heat Illness

Heat cramps	Heat exhaustion	Heat Stroke
Key Signs – Painful muscle spasms in legs or abdomen, sweating present, consciousness normal First Response – Rest in a cool area. Provide oral rehydration (ORS or electrolyte drink) and monitor.	Key Signs – Heavy sweating, weakness, cold or clammy skin, fast weak pulse, nausea, dizziness, possible fainting First Response – Move to a cool area, provide oral rehydration, cooling with a fan and wet cloth. Refer to the hospital if there is no improvement within 30 minutes.	Key Signs – Core temperature $\geq 40^{\circ}\text{C}$, hot dry skin (sweating may stop), confusion, altered consciousness, possible seizures First Response – Medical emergency. Begin active cooling immediately.

6.3.1 Heatstroke Management: *Cool First, Transport Second*

For suspected heatstroke, active cooling must begin immediately and continue during transport and after arrival at hospital.

Heatstroke Emergency Protocol — *Cool First, Transport Second*

Step	Key Action
1. Recognise	Suspect heatstroke if core temperature $\geq 40^{\circ}\text{C}$ with confusion, altered consciousness, or seizures.
2. Move to cool area	Shift patients immediately to shaded or cool locations.
3. Remove excess clothing	Allow rapid heat loss from the body.
4. Start active cooling	Apply ice packs to the neck, armpits, and groin. If ice packs are unavailable, use wet cloth with fanning.
5. Fluids	Do not give oral fluids if the patient is unconscious or semi-conscious. Start IV fluids for severe cases.
6. Transport	“108” ambulance teams should continue cooling during transport.

Heatstroke Emergency Protocol — <i>Cool First, Transport Second</i>	
Step	Key Action
7. Hospital management	Continue cooling and monitor core temperature using a rectal thermometer. Stop active cooling when temperature reaches ~38.5°C.
8. Documentation	Record symptom onset, time cooling began, and temperature on arrival for clinical record and surveillance reporting.

6.3.2 Heatstroke Management: *Referral Criteria*

Operational guidance:

- Where possible, the referring Medical Officer should call ahead to the receiving facility before transport.
- During Orange and Red alerts, heatstroke referrals should be treated as priority calls by “108” ambulance services.

Patients taking diuretics, antihypertensives, antipsychotics, or antihistamines may have impaired heat regulation or increased dehydration risk. A brief medication review during triage can help guide clinical assessment and management.

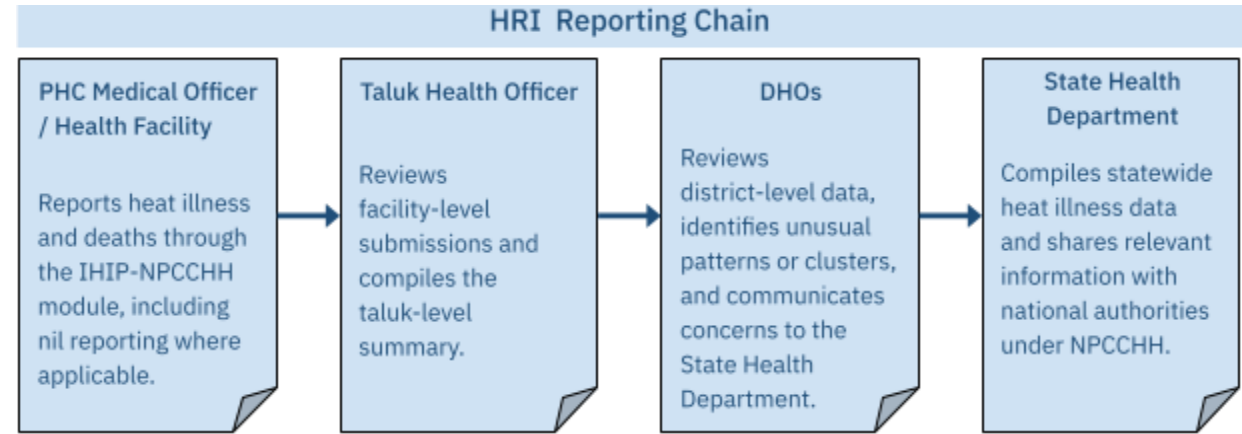
6.4 Heat Surveillance and IHIP Reporting

Karnataka’s heat surveillance system operates through the Integrated Health Information Platform (IHIP) under the National Programme on Climate Change and Human Health (NPCCHH). Data reported through IHIP contributes to national monitoring under NPCCHH and supports the state’s own heat risk monitoring systems.

During the heat season, health facilities report heat-related illness and deaths through the IHIP NPCCHH module. Facilities should report data regularly during the heat season, including nil reports when no cases are observed, to avoid gaps in surveillance records.

Health facilities report the following indicators through the IHIP NPCCHH module

HRI- Illness	Heat-related deaths	Community outreach
Heat-related illness cases by category: heat cramps, heat exhaustion, heat syncope, and heatstroke.	Deaths where heat exposure is confirmed or considered a probable contributing factor.	Community outreach indicators: such as ORS distribution during heat advisories, which may serve as a proxy indicator of community heat stress.



Private hospitals treating heat illness cases are encouraged to participate in reporting through the IHIP system. Coordination with private sector medical associations may help improve reporting coverage.

Use of Heat Surveillance Data			
Clusters of heatstroke cases	Unusual increases in heat illness in specific locations	Cases occurring among vulnerable populations or occupational groups.	Develop region-specific heat index thresholds for the state.
Heat illness data reported through the IHIP system also supports improvement of Karnataka’s heat early warning system (Chapter 4). Anonymised surveillance data may be shared with the ARTPARK–IISc technical team to analyse the relationship between weather conditions and health impacts and to develop region-specific heat index thresholds for the state.			

6.5 Heat Death Certification

Accurate certification of heat-related deaths is important for clinical records and public health surveillance. Reliable mortality data helps the state understand the health impacts of extreme heat and supports planning of future heat risk reduction measures.

During the heat season, deaths where heat exposure is considered the primary or a contributing factor should be certified in accordance with national guidelines under the National Programme on Climate Change and Human Health (NPCCHH).

This guideline for *“Autopsy Findings in Heat Related Deaths”* is prepared under National Programme on Climate Change and Human Health (NPCCHH), National Centre for Disease Control (NCDC), MoHFW. It addresses the demand for guidance in identifying and categorizing heat-related deaths and supplements earlier publications, i.e., National Action Plan on Heat Related Illnesses (2021), which outlines National HeatRelated Illness and Death Surveillance. Concentrating on autopsy findings, these guidelines attempt to standardize the approach to confirming heatstroke and heat related deaths through evidence-based medical decision-making processes.

ICD Coding for Heat-Related Deaths –

Heat-related deaths should be recorded using appropriate ICD-10 codes, consistent with national certification practices

T67 – Effects of heat and light, including heatstroke and sunstroke

X30 – Exposure to excessive natural heat

During periods of extreme heat, clinicians should consider heat exposure when evaluating deaths occurring in:

- Persons recently exposed to high environmental temperatures
- Outdoor workers or persons found in hot environments
- Vulnerable individuals such as the elderly or those with chronic illness.

Certification should follow standard medical certification of cause of death guidelines. Heat-related deaths should also be reported through the IHIP NPCCHH module as part of routine heat surveillance.

6.6 Coordination with District Administration and SDMA

The health system operates as part of the broader district heat response led by the District Disaster Management Authority (DDMA). The District CMO participates in the District Heat Management Committee and contributes health surveillance information, including heat illness trends and cluster reports, to district coordination discussions. Data from PHCs, ASHA workers, and ANM outreach feeds into the district situation assessment used by the Deputy Commissioner to guide preparedness and response actions. Health authorities also coordinate with other departments where required, including labour authorities when heat illness is reported among outdoor workers.

At the state level, the Health Department coordinates with the State Disaster Management Authority (SDMA) on heat morbidity and mortality data, surveillance trends, and resource requirements during the heat season. The National Health Mission supports supply chain management for essential items such as ORS and IV fluids. Heat illness data reported through the IHIP system contributes to national monitoring, while taluk-level heat risk forecasts generated under the state's early warning system (Chapter 4) support advance preparedness and resource planning by health authorities.

For IHIP reporting: <https://ihip.mohfw.gov.in/npcchh>

SOP Cards 5.2.D (Public Health Advisory) and 5.2.E (Health Facility Preparedness) in Chapter 5 contain the alert-level specific actions for this chapter. This chapter and those SOP cards are designed to be read together.

Chapter 7 — Long-Term Strengthening of Heat Risk Management

Extreme heat risk in Karnataka is expected to increase in the coming decades due to climate change, urbanisation, and changing land-use patterns. While this Heat Action Plan focuses on preparedness and response during the heat season, long-term risk reduction requires strengthening forecasting systems, public health surveillance, urban planning, and community awareness.

The following areas represent priority directions for strengthening heat risk management in Karnataka over time.

7.1 Strengthening Heat Risk Forecasting

Continuous improvement of the Early Warning System described in Chapter 4 is an important priority. Future efforts will focus on improving the accuracy and spatial resolution of heat risk forecasts through:

Development of higher-resolution weather and heat-stress forecasts	Use of AI-based downscaling methods to improve local prediction	Strengthening the observational monitoring network operated by KSNDMC	Periodic evaluation of forecast performance using observational data
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Improved forecasting will allow district administrations to better identify emerging heat risk conditions and plan preparedness actions earlier.

7.2 Integration of Health Surveillance and Heat Risk Analysis

Strengthening the linkage between weather information and health outcomes is an important area for long-term improvement.

Using IHIP heat illness surveillance data to evaluate heat risk indicators	Supporting analysis of weather–health relationships across regions	Refining heat risk thresholds used in the Early Warning System
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These efforts will support better understanding of how extreme heat affects health across Karnataka.

7.3 Improving Local Outdoor Heat Risk Information

Local environmental conditions such as land use, urbanisation, and vegetation influence how heat is experienced at the community level.

Mapping urban heat-stress hot-spots in major cities	Strengthening local weather observation networks	Development of higher-resolution gridded weather datasets for Karnataka
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Pilot observational studies are planned with academic institutions to improve understanding of outdoor heat exposure. Undergraduate students in science and technology programmes may assist in monitoring Wet Bulb Globe Temperature (WBGT) at selected locations. The initiative, expected to be implemented over the next two to three years, will be coordinated by ARTPARK–IISc in collaboration with CAOS & DCCC–IISc, KSNDMC, and KSDMA, and will generate ground observations to support validation of heat-stress forecasts and identification of local heat-stress hot-spots.

7.4 Heat Mitigation and Cool Roofs

Urban areas often experience higher temperatures than surrounding regions due to dense built surfaces and heat-absorbing construction materials.

Promoting cool-roof measures in public buildings, schools, and affordable housing	Strengthening local weather observation networks	Development of higher-resolution gridded weather datasets for Karnataka
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Such measures can help reduce indoor heat exposure and improve thermal comfort in buildings (Refer Annexure 10 and 11).

7.5 Research, Innovation, and Capacity Building

Continued collaboration between government institutions, research organisations, and universities will support innovation in heat risk management.

Priority areas include		
Evaluation of AI-based weather prediction systems for extreme heat events	Research on heat stress indicators relevant to Karnataka’s climate	Training of government officials in heat risk interpretation and preparedness planning.

Collaborative field studies are being conducted with academic institutions to assess health system preparedness during the heat season. An initial assessment has been undertaken by the Department of Health and Family Welfare in collaboration with NIMHANS. Building on this work, similar assessments will be expanded in the coming years across districts identified as having higher heat risk. These studies will be carried out with the participation of Master of Public Health (MPH) students and faculty from government and private public health institutions. Field assessments at PHCs, CHCs, and taluk hospitals will document preparedness practices, identify operational gaps, and support the sharing of best practices for strengthening heat–health response systems.

These efforts will support the gradual strengthening of Karnataka’s heat risk management and preparedness systems over time.

Annexures

The annexures provide detailed technical information, reference tables, and operational guidelines that support the implementation of this Heat Action Plan. These include alert thresholds, indicator definitions, and sector-wise Standard Operating Procedures (SOPs) for departments.

The annexures are intended to serve as practical reference material for district officials and implementing agencies.

Table 1: Indicator Threshold Summary				
Trigger (Indicators)	Green (Low or No Risk)	Yellow (Moderate)	Orange (High)	Red (Extreme)
EHF	$EHF < 0$	$0 < EHF < EHF_{85}^9$	$EHF > EHF_{85}$	$EHF > 3 \times EHF_{85}$
Tmax Anomaly	$-1.5^{\circ}\text{C} < +1.5^{\circ}\text{C}$	$+1.5^{\circ}\text{C} - 3^{\circ}\text{C}$	$+3^{\circ}\text{C} - 5^{\circ}\text{C}$	$> +5^{\circ}\text{C}$
Heat Index	$< 32^{\circ}\text{C}$	$32^{\circ}\text{C} - 41^{\circ}\text{C}$	$41^{\circ}\text{C} - 54^{\circ}\text{C}$	$> 54^{\circ}\text{C}$
WBGT	$< 26^{\circ}\text{C}$	$26 - 28^{\circ}\text{C}$	$28 - 31^{\circ}\text{C}$	$> 31^{\circ}\text{C}$
THI	< 72	$72 - 78$	$79 - 88$	≥ 89

Table 2: Risk Alert Matrix				
Alert Level	Green	Yellow	Orange	Red
Risk Level	Low or No Risk	Moderate	High	Extreme
General Interpretation	No unusual heat	Early stress possible	Significant heat stress	Severe risk to life and systems
Response Direction	Preparedness	Awareness & Preparation	Active Response	Emergency Acting

⁹ HF85 refers to conditions where the Excess Heat Factor (EHF) exceeds the 85th percentile of its historical distribution, indicating significantly elevated and unusual heat stress.

Annexure 1: SOP Card — Labour and Outdoor Worker Safety

Protect outdoor and heat-exposed workers by reducing heat exposure, preventing heat illness, and ensuring safe working conditions during heat events.

Lead Department: Labour Department / RDPR

Nodal Officers: Labour Commissioner / District Labour Officer

Implementation Level: District / Taluk / Worksite

Facility Responsibility: Employer / Contractor / Site Supervisor

Coordinate With: ULBs, RDPR, Agriculture Department, Police, Platform Companies

Emergency Coordination Contacts: Maintain and display updated contact details of the Labour Department, Health facilities, 108 Ambulance, and local authorities for immediate support.

High-Risk Workers:

- Construction labour
- Sanitation workers
- Street vendors
- Delivery/gig workers
- Agricultural labour
- MGNREGS workers

Pre-Season – Be Ready During Heat Season

What This Means for Your Department:

Preparedness to ensure safe working conditions for heat-exposed workers.

Risk if Action Not Taken:

Worksites remain unprepared, increasing risk of early heat stress and unsafe working conditions.

Actions:

- Issue advisory to contractors/employers on heat preparedness
- Ensure shaded rest areas and potable drinking water
- Brief supervisors on worker acclimatization (new/migrant workers)
- Disseminate guidance through contractor and industry networks

Alert Level: YELLOW – Awareness + Preparation

What This Means for Your Department:

Rising temperatures increase early heat stress risk for workers.

Actions:

- Promote awareness on hydration and early symptoms
- Encourage water and local hydration (buttermilk, lemon water, etc.)
- Display visual IEC materials at worksites
- Conduct spot inspections at major/high-risk worksites
- Disseminate advisories via ULBs, RDPR, Agriculture, platform networks
- Record advisories and inspections in district dashboard

Alert Level High heat risk – ORANGE – Action

What This Means for Your Department:

- High heat risk requires active protection through work-hour changes, rest breaks, and supervision.

Risk if Action Not Taken:

- Increased risk of heat exhaustion, dehydration, and serious health impacts among workers.

Actions:

- Modify work schedules to early morning/evening shifts

- Ensure mandatory rest breaks in shaded areas
- Provide ORS, water, and cooling measures at worksites
- Increase monitoring of high-risk workers and conditions
- Restrict heavy work during peak heat hours where feasible; implement structured work–rest cycles and ensure regular hydration.

Alert Level; RED – Emergency

What This Means for Your Department:

Extreme heat conditions require prioritising worker safety and restricting high-risk activities.

Risk if Action Not Taken:

High likelihood of severe heat illness, including heatstroke and preventable deaths among workers.

Actions:

- Enforce work timing restrictions
- Restrict/reschedule non-essential outdoor work where feasible
- Ensure continuous water, ORS, shade, and first-aid
- Conduct frequent inspections of high-risk worksites
- Coordinate with ULBs/Agriculture to reduce outdoor exposure
- Disseminate advisories to gig/delivery workers via platforms

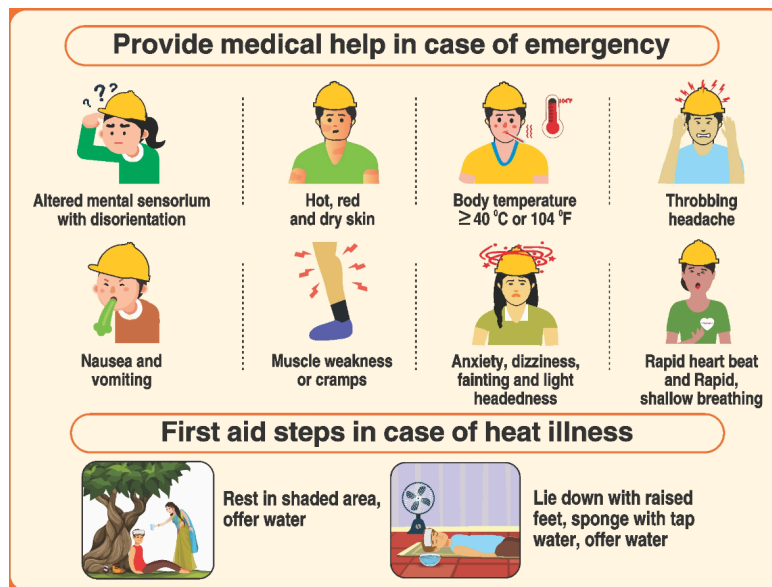


Image Source: <https://www.who.int/india/heat-waves> & https://ncdc.mohfw.gov.in/wp-content/uploads/2024/12/Report-of-Heat-Related-Activities-2024_NPCCHH.pdf

Annexure 2: SOP Card — Fire and Emergency Services

Maintain and display updated contact details of key agencies (Fire Stations, Police, ESCOM, Urban Local Bodies, District Control Room) for immediate coordination

Lead Department: Fire and Emergency Services

Nodal Officers: District Fire Officer

Implementation Level: District / Taluk / Fire Stations

Facility Responsibility: Station Officer / Fire Station In-charge

Coordinate With: DDMA, Urban Local Bodies, Police, ESCOM

Emergency Support: District Administration

Emergency Coordination Contacts: Maintain updated contact details of Fire Stations, Police, ESCOM, Urban Local Bodies, District Control Room.

High Risk Areas:

- Garbage dumps and landfills
- Dry vegetation/grasslands
- Markets and commercial areas
- Industrial zones and warehouses
- Transformer yards and electrical infrastructure
- Dense/slum settlements
- Areas with combustible materials

Pre-Season – Be Ready During Heat Season

What This Means for Your Department:

Vigilance for fire risk

Actions:

- Review readiness of fire stations and equipment
- Ensure water availability for fire-fighting
- Conduct awareness on prevention of garbage and vegetation fires
- Identify high-risk locations for monitoring

Alert Level: YELLOW – Awareness + Preparation

What This Means for Your Department:

Readiness and risk identification

Actions:

- Increase vigilance for vegetation and waste fires
- Coordinate with ULBs to clear dry waste and combustible material
- Ensure readiness of fire response vehicles and staff

Alert Level: ORANGE – Action

What This Means for Your Department:

High fire risk — active monitoring and response readiness

Actions:

- Maintain readiness for rapid fire response
- Monitor high-risk areas (markets, warehouses, dumps)
- Coordinate with ESCOM for electrical/transformer fire risks

Alert Level: RED – Emergency

What This Means for Your Department

High fire risk — active monitoring and response readiness

Actions:

- Maintain high alert and rapid response readiness
- Respond immediately to fire incidents and escalation
- Coordinate with District Administration, Police, ESCOM
- Support evacuation and emergency response where required

Annexure 3: SOP Card — Animal Husbandry

Reduce heat stress, illness, and mortality in livestock through timely advisories, veterinary preparedness, and field-level interventions during heat events.

Lead Department: Animal Husbandry & Veterinary Services

Nodal Officers: District Animal Husbandry Officer (DAHO)

Implementation Level: District / Taluk / Field / Goshala

Facility Responsibility: Veterinary Officers / Para-veterinary Staff

Coordinate With: DDMA, Panchayats, ULBs, Farmer Groups, NGOs, Goshala Committees

Support Systems: Veterinary Hospitals, Mobile Veterinary Units

High-Risk Livestock:

- Young animals
- Pregnant/lactating animals
- Sick animals
- Heavy animals
- Dark-coloured animals
- Poultry

Pre-Season – Be Ready During Heat Season

What This Means for Your Department:

Awareness and infrastructure readiness for livestock heat stress.

Actions:

- Disseminate seasonal advisories on heat stress prevention
- Promote shaded shelters and ventilation in sheds
- Ensure access to clean drinking water

- Conduct awareness through veterinary extension and farmer meetings
- Sensitise farmers on early signs of heat stress

Alert Level: YELLOW – Awareness + Preparation

What This Means for Your Department:

Rising temperatures require preventive measures for livestock.

Actions:

- Ensure shade, airflow, and continuous drinking water
- Shift grazing/feeding to morning and evening hours
- Promote temporary shade structures where needed
- Encourage balanced feed, green fodder, electrolytes
- Strengthen outreach via field staff and farmer groups

Alert Level High heat risk – ORANGE – Action

What This Means for Your Department:

- High heat risk; livestock may experience significant stress.

Risk if action not taken:

- Increased illness, reduced productivity, and risk of livestock losses.

Actions:

- Intensify advisories on cooling and hydration practices
- Promote water sprinkling, bathing, and airflow improvements
- Use wet gunny bags for evaporative cooling in sheds
- Avoid overcrowding in animal housing
- Restrict movement during peak heat (11 AM–4 PM)
- Ensure veterinary facilities have medicines, fluids, electrolytes

- Ensure goshala readiness (shade, water, ventilation)
- Advise poultry farmers on cooling, ventilation, and water supply
- Report livestock stress conditions through district systems

Alert Level; RED – Emergency

What This Means for Your Department:

Extreme heat; high risk of livestock illness and mortality.

Risk if Action Not Taken:

Severe livestock losses and economic impact on farmers.

Actions:

- Intensify emergency advisories to livestock owners
- Ensure continuous shade, water, and cooling measures
- Apply immediate cooling (sprinkling, bathing, wet gunny bags)
- Suspend grazing/transport during peak heat
- Monitor symptoms: panting, weakness, salivation, abnormal behaviour
- Ensure veterinary facilities provide immediate treatment support
- Monitor goshalas and large shelters closely
- Ensure emergency cooling and continuous water in poultry sheds

Annexure 4: SOP Card — Drinking Water Supply

Ensure the access to safe drinking water during heat events to reduce dehydration risk and protect public health.

Lead Department: RDPR (Rural) & Urban Local Bodies / Water Boards (Urban)

Nodal Officers: Executive Engineer (Water Supply) / CEO ZP / Municipal Commissioner

Implementation Level: District / Taluk / GP / Urban Ward

Facility Responsibility: AE/JE (Water Supply), PDO, Municipal Engineers

Coordinate With: DDMA, Water Resources Department, ESCOM, Gram Panchayats, ULBs

Critical Systems: Water sources, pumping stations, pipelines, tankers, public water points

High-Risk Areas:

- Water-stressed villages
- Urban slums
- High-footfall areas (markets, bus stands)
- Tanker-dependent areas

Alert Level : GREEN – Be Ready During Heat Season

What This Means for Your Department:

Functional water systems before the heat season.

Actions:

- Map tanker routes and prepare tanker inventory
- Identify pumping stations and notify ESCOM for priority supply
- Track reservoir levels with Water Resources Department

Alert Level: YELLOW – Awareness + Preparation

What This Means for Your Department:

Rising temperatures require close monitoring of supply systems.

Actions:

- Verify water points, pipelines, pumps are functional
- Repair non-functional sources at the earliest.
- Keep tankers on standby in high-risk areas
- Monitor daily supply duration and flag shortages
- Track reservoir levels

Alert Level High heat risk – ORANGE – Action

What This Means for Your Department:

- High heat risk; drinking water becomes a priority service.

Risk if action not taken:

- Water shortages may increase dehydration risk and public distress.

Actions:

- Prioritise drinking water over non-essential uses
- Deploy tankers to water-stressed areas
- Monitor systems daily; escalate failures at the earliest
- Ensure public water points (markets, bus stands) are functional
- Confirm power priority for pumping stations (ESCOM)
- Coordinate reservoir allocation for drinking water

Alert Level; RED – Emergency

What This Means for Your Department:

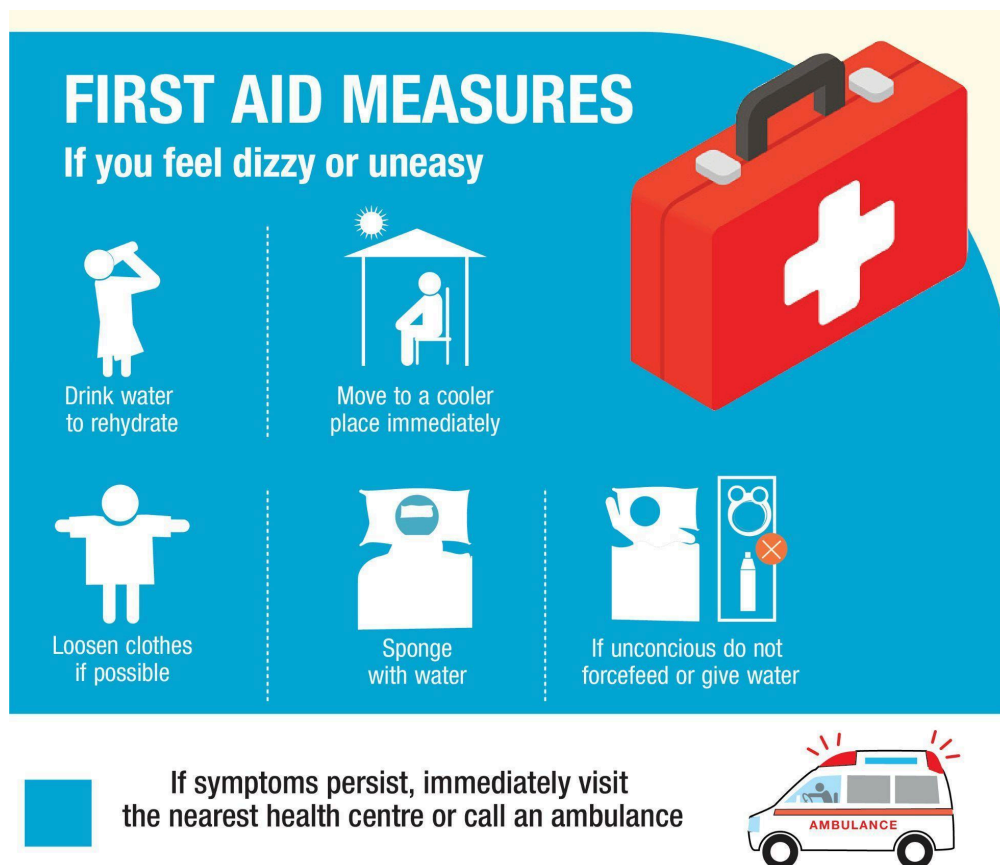
Extreme heat; continuous water supply is critical for life safety.

Risk if Action Not Taken:

Water disruption may lead to public health emergencies.

Actions:

- Ensure uninterrupted drinking water supply
- Deploy tankers to all water-stressed locations
- Conduct twice-daily monitoring of critical systems
- Escalate failures at the earliest
- Ensure all public water points remain functional
- Coordinate reservoir releases for drinking water
- Confirm power priority for pumping stations



Source: https://www.who.int/images/default-source/searo---images/act-and-amplify/beat-the-heat/poster--05.jpg?sfvrsn=aabfabd3_2 & https://ncdc.mohfw.gov.in/wp-content/uploads/2024/12/Report-of-Heat-Related-Activities-2024_NPCCHH.pdf

Annexure 5: SOP Card — Agriculture & Horticulture

Reduce heat stress impacts on crops by promoting timely advisories, moisture management, and protective practices during heat events.

Lead Department: Department of Agriculture & Department of Horticulture

Nodal Officers: Joint Director (Agriculture) / Joint Director (Horticulture)

Implementation Level: District / Taluk / Field

Facility Responsibility: Agriculture Officer / Horticulture Officer / Extension Staff

Coordinate With: KVKs, RDPR, DDMA, Water Resources Department

Support Network: Farmer Producer Organisations (FPOs), Farmer Groups

High-Risk Crops / Conditions:

- Nursery plants and seedlings
- Young orchards/saplings
- Vegetables during flowering/fruiting
- Banana under moisture stress
- Polyhouse/shade-net crops

Pre-Season – Be Ready During Heat Season

What This Means for Your Department:

Advisory dissemination and readiness for heat stress management.

Actions:

- Disseminate seasonal advisories on heat stress management

- Promote mulching, shade management, and micro-irrigation
- Ensure readiness of nurseries and demonstration farms
- Train field staff and extension officers

Alert Level: YELLOW – Awareness + Preparation

What This Means for Your Department:

Rising temperatures require early protective measures for crops.

Actions:

- Issue advisories via KVKs, extension staff, and farmer groups
- Increase irrigation frequency (morning/evening)
- Promote mulching and soil moisture conservation
- Ensure adequate shading and irrigation in nurseries

Alert Level High heat risk – ORANGE – Action

What This Means for Your Department:

- High heat risk requires active intervention to prevent crop damage.

Actions:

- Advise avoidance of field work/irrigation during peak heat
- Increase monitoring of orchards, vegetables, nurseries
- Promote temporary shading for young plants
- Coordinate for water availability where feasible
- Report crop stress conditions to district administration

Alert Level; RED – Emergency

What This Means for Your Department:

Extreme heat conditions require urgent measures to prevent severe crop loss.

Risk if Action Not Taken:

High risk of crop failure, severe yield loss, and economic impact on farmers.

Actions:

- Intensify advisories via SMS, WhatsApp, extension networks
- Advise frequent light irrigation (where water is available)
- Promote protective measures (shade, moisture conservation)
- Report crop damage and severe stress to district administration
- Confirm power priority for pumping stations

Annexure 6: SOP Card — Power Utilities (ESCOM)

Ensure uninterrupted power supply to critical services and manage increased electricity demand during heat events.

Lead Department: Department of Agriculture & Department of Horticulture

Nodal Officers: Superintending Engineer / Divisional Engineer (District)

Implementation Level: District / Division / Substation / Feeder

Field Responsibility: Assistant Engineer / Junior Engineer

Coordinate With: DDMA, Health Department, Water Supply Department, Urban Local Bodies

Critical Consumers: Hospitals, PHCs, water pumping stations, cooling centres, public spaces

High-Risk Infrastructure:

- Hospitals & PHCs
- Water supply systems
- Transformer yards
- High-load urban feeders
- Public cooling spaces
- Dense urban areas

Pre-Season – Be Ready During Heat Season

What This Means for Your Department:

Readiness to handle increased electricity demand during heat.

Actions:

- Review readiness of transformers, feeders, and substations
- Identify critical feeders serving hospitals and water systems
- Ensure maintenance of backup systems and response teams
- Plan for load management during peak summer

Alert Level: YELLOW – Awareness + Preparation

What This Means for Your Department:

Rising temperatures may increase electricity demand.

Actions:

- Monitor power supply to hospitals, PHCs, and water systems
- Ensure quick response to transformer and feeder faults
- Increase readiness of field teams for outage response

Alert Level High heat risk – ORANGE – Action

What This Means for Your Department:

- High heat conditions require uninterrupted power for critical services.

Risk if action not taken:

- Power disruptions may affect health services, water supply, and public safety.

Actions:

- Prioritise supply to hospitals, PHCs, water systems, cooling centres, public spaces
- Respond urgently to outages affecting critical infrastructure
- Monitor high-load feeders and transformer performance

Alert Level; RED – Emergency

What This Means for Your Department:

Extreme heat conditions; continuous power supply is critical..

Risk if Action Not Taken:

High risk of service disruption, impacting health, water supply, and public safety.

Actions:

- Ensure uninterrupted power supply to all critical services
- Restore outages on priority (critical infrastructure first)
- Deploy teams for rapid fault detection and restoration
- Coordinate with district administration for emergency support

Annexure 7: SOP Card — Education Institutions

(Schools, Colleges, Universities, Coaching Centres)

Ensure safe learning environments during heat events by reducing heat exposure and protecting students and staff.

Lead Department: School Education & Literacy / Higher Education

Nodal Officers: DEO / BEO (Schools), DDPU (PU Colleges), RJD / Institutional Heads (Colleges & Universities)

Implementation Level: District / Block / Institution

Facility Responsibility: Principal / Head of Institution

Coordinate With: DDMA, Local Bodies, PHC Medical Officers, Examination Authorities

Support Staff: Teachers, Administrative Staff

High-Risk Settings:

- Asbestos/metal sheet classrooms
- Poorly ventilated buildings
- Exam centres
- High-density classrooms
- Outdoor activity spaces

Alert Level : GREEN – Be Ready During Heat Season

What This Means for Your Department:

Readiness before the heat season and exams.

Actions:

- Circulate heat safety advisory to all institutions
- Ensure drinking water availability in classrooms and campuses
- Verify fans and ventilation systems

- Display “108” and basic heat guidance
- Inform coaching/private institutes to follow precautions
- Improve roof insulation/shading where feasible

Alert Level: YELLOW – Awareness + Preparation

What This Means for Your Department:

Rising temperatures increase early heat stress risk.

Actions:

- Avoid outdoor activities (11 AM–4:30 PM)
- Ensure continuous drinking water availability
- Provide shaded waiting areas
- Monitor students for early symptoms
- Take precautions in high-heat buildings (asbestos/metal roofs)

Alert Level High heat risk – ORANGE – Action

What This Means for Your Department:

- High heat requires additional safety measures.

Risk if action not taken:

- Increased risk of heat illness and unsafe learning conditions.

Actions:

- Schedule activities during cooler hours where feasible
- Ensure fans, shaded classrooms, and water availability
- Provide shaded waiting areas for exams/classes
- Ensure access to first response and nearby health facilities
- Avoid intensive activities/labs during peak heat; reschedule to cooler hours

- Report heat incidents through DDPI/DDPU/Institution Heads to DDMA

Alert Level; RED – Emergency

What This Means for Your Department:

Extreme heat conditions require maximum precautions.

Risk if Action Not Taken:

High risk of heat illness among students and staff.

Actions:

- Avoid classes/exams during peak heat where feasible
- Review schedule adjustments or temporary closure (if required)
- Ensure water, shade, and ventilation in all spaces
- For exams: ensure water, shaded waiting, and advisories
- Avoid intensive activities and laboratory work during peak heat; reschedule to cooler hours or non-heatwave days.
- Restrict use of high-heat classrooms (asbestos/metal roofs)
- Communicate heat safety to students and staff
- Report incidents through institution → district → DDMA

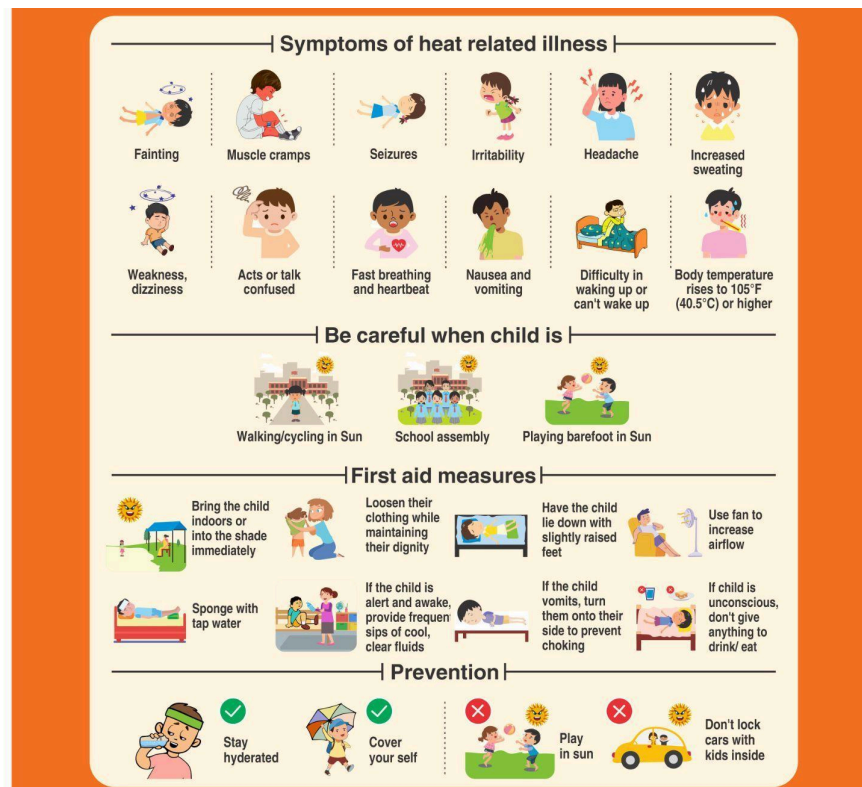


Image Source : <https://www.who.int/india/heat-waves> & https://ncdc.mohfw.gov.in/wp-content/uploads/2024/12/Report-of-Heat-Related-Activities-2024_NPCCHH.pdf

Annexure 8: SOP Card — Public Health Advisory

This SOP outlines the issuance and dissemination of public health advisories to reduce heat-related illness among the general population and vulnerable groups during heat alerts.

Lead Department: Health & Family Welfare Department

Nodal Officer: District Health Officer (DHO)

Coordinate With: DDMA, Information Department, Urban Local Bodies, RDPR, Education Department.

Vulnerable Groups:

- Infants and young children
- People working outdoors
- Pregnant women (Kusina Mane participants)
- Dialysis patients,
- People who have a mental illness
- Physically ill, especially with heart disease or high blood pressure
- Travelers from colder climate to a hot climate should allow one week's time for their bodies to
- acclimatized to heat, avoid overexertion, and should drink plenty of water.
- Acclimatization is achieved by gradual increase (over 10-15days) in exposure/physical activity in hot environment

Pre-Season – Be Ready During Heat Season

What This Means for Your Department:

Preparedness for public awareness.

Risk if Action Not Taken:

Season begins with no materials, no trained ASHAs, and no community awareness. First heat illness cases go unrecognised.

Actions:

- Develop Kannada IEC materials on hydration and early heat illness (use pictograms)
- Ensure ASHA workers are trained on advisories, ORS use, and referral protocol (by Feb 28)
- Display IEC materials at PHCs, hospitals, bus stands, and AWCs
- Include key messages: avoid peak heat (Zone A: 11–4, Zone B: 12–4), hydrate (water, ORS, majjige, bela paanaka)
- Identify and inform high-risk groups (elderly, chronic illness, dialysis, certain medications)
- Improve roof insulation/shading where feasible

Alert Level: YELLOW – Awareness + Preparation

What This Means for Your Department:

Rising temperatures. Early risk for vulnerable groups including elderly persons, children, disabled persons, homeless persons, and socially isolated households.

Actions:

- Issue district-level heat advisory: hydration, avoid peak heat (11 AM–4 PM), recognise early symptoms

- Disseminate via PHCs, ASHA/Anganwadi workers, FM radio, and local channels
- Promote local hydration: majjige, bela paanaka, nimbu paani, tender coconut, ORS
- Focus on vulnerable groups: elderly (65+), children, pregnant women, outdoor workers, and persons with chronic illness/medications
- Advise: if confusion, collapse, or no sweating → call 108 immediately

Alert Level High heat risk – ORANGE – Action

What This Means for Your Department:

High heat risk. Increased likelihood of heat illness among vulnerable populations. Protective measures must be intensified.

Risk if Action Not Taken:

The community does not know the current alert level or what to do. Heat illness cases not recognised early. “108” not called promptly.

Actions:

- Issue daily public health advisory.
- Include current alert level colour, specific timing restrictions, hydration guidance, and “108” number prominently.
- Intensify ASHA outreach to all vulnerable households in High-risk taluks. Focus on elderly persons living alone, persons on dialysis, persons with chronic illness.
- Promote early recognition: dizziness, nausea, headache, dark urine, confusion — seek shade, hydrate, call PHC or “108”.
- Share emergency contact numbers: “108” ambulances, nearest PHC, District Hospital. Ensure “108” numbers appear on every advisory.
- Coordinate with the Information Department for advisory broadcast on local FM, cable, and public address systems in market areas and bus stands.

Alert Level; RED – Emergency

What This Means for Your Department:

Extreme heat conditions; public protection messaging becomes critical. Daily advisory updates required.

Risk if Action Not Taken:

In the absence of timely communication during extreme heat, preventable heat-related deaths may occur, particularly among elderly and chronically ill persons, and health staff may not be adequately prepared to respond

Actions:

- Issue urgent heat advisories via media, fm radio, pa systems, whatsapp, and anganwadi networks.
- Direct public to stay indoors (11 am–4 pm), drink water regularly, and call “108” if unwell.
- Ensure check-ins for high-risk groups (elderly, chronically ill) through asha/anganwadi workers.
- Ensure all suspected heat deaths are reported immediately to phc/asha.
- Promote “108/102” and nearest health facility in all communications.
- Ensure availability of ORS, drinking water, and basic cooling supplies at all health facilities.
- Keep doctors and health staff alert to identify and treat heat illness early (cool first, then refer if needed).

Annexure 9: SOP Card – Health Facility Preparedness

This SOP outlines the preparedness and response actions required at health facilities to effectively manage heat-related illnesses during the heat season. It focuses on ensuring readiness of infrastructure, availability of essential supplies, trained personnel, and clear referral mechanisms to enable early identification and prompt treatment of heat illness.

- **Lead Department:** Health & Family Welfare Department
- **Nodal Officers:** District Health Officer (DHO), Chief Medical Officer (CMO)
- **Implementation Level:** District / Taluk / Health Facility (PHC, Taluk, District Hospital)
- **Facility Responsibility:** Medical Officer / Medical Superintendent
- **Coordinate With:** DDMA, Information Department, Urban Local Bodies, RDPR, Education Department, Electricity Department
- **Support Staff:** ASHA, ANM, Anganwadi Workers
- **Emergency Support:** “108” Ambulance Services, Drug Warehouse
- **Emergency Coordination Contacts:** Maintain updated contact details of Electricity, Water Supply, “108” Ambulance, Drug Warehouse, and referral hospitals for immediate support.

Alert Level : GREEN – Be Ready During Heat Season

What This Means for Your Department:

Preparedness of health facilities before the onset of the heat season.

Actions:

- Review readiness of health facilities for heat illness management
- Ensure availability of ORS, IV fluids, thermometers, and basic cooling equipment
- Ensure drinking water and shaded/ventilated waiting areas
- Use low-cost cooling measures (fans, ventilation, local solutions)
- Confirm referral pathways between PHC, taluk, and district hospitals

Alert Level: YELLOW – Awareness + Preparation**What This Means for Your Department:**

Early heat conditions; facilities remain prepared to manage heat-related illness.

Actions:

- Check ORS, IV fluids, and ice pack stocks; replenish shortages at PHCs
- Sensitise staff on heat illness recognition and first response
- Ensure cooling/ventilation in waiting and treatment areas
- Update and confirm referral contacts and numbers
- Ensure Medical Officers follow referral criteria and “cool first” protocol

Alert Level High heat risk – ORANGE – Action**What This Means for Your Department:**

- Increased likelihood of heat illness among vulnerable populations.
- Protective measures must be intensified.

Risk if Action Not Taken:

- The community does not know the current alert level or what to do.
- Heat illness cases not recognised early.
- “108” not called promptly.

Actions:

- Designate heat illness beds: PHC , Taluk, District
- Ensure ORS, IV fluids, and ice packs are fully stocked
- Coordinate with “108”; ensure “cool first” during transport
- Ensure ventilation and fans in treatment areas
- For suspected heatstroke: start cooling immediately (do not wait)
- Report suspected heat deaths within 24 hours (ICD: T67.0, X30)

Alert Level; RED – Emergency

What This Means for Your Department:

Extreme heat conditions; public protection messaging becomes critical. Daily advisory updates required.

Risk if Action Not Taken:

In the absence of timely communication during extreme heat, preventable heat-related deaths may occur, particularly among elderly and chronically ill persons, and health staff may not be adequately prepared to respond.

Actions

- Issue urgent heat advisories via media, fm radio, pa systems, whatsapp, and activate designated heat illness treatment areas at all levels
- Maintain full stock of ORS, IV fluids, and ice packs; report any depletion immediately to CMO/Drug Warehouse
- Coordinate with “108” for referral; ensure early cooling and stabilisation during transport
- Apply Cool First protocol for all suspected heatstroke: Ice packs to neck, axilla, groin, Evaporative cooling, Cold IV fluids if core temp $\geq 40^{\circ}\text{C}$, Ensure core temperature monitoring
- Ensure reliable power/backup for critical treatment areas
- Report heat deaths:CMO, SDMA and use se ICD codes: T67.0 and X30

Annexure 10: SOP Card – Tourism Sector

This SOP outlines actions for the tourism sector to reduce heat-related risks among tourists and tourism workers during heat alerts.

Lead Department: Department of Tourism, Government of Karnataka

Coordinate With: DDMA, Health, Police, Transport, Forest

Emergency Support: “108” Ambulance Services, Drug Warehouse

Vulnerable Groups:

- Elderly tourists (65+),
- children,
- pilgrims on foot or in open queues,
- outdoor tourists (heritage walks, trekking, wildlife safaris),
- tourists arriving from colder climates (require 7–10 days acclimatization),
- tourism workers (guides, drivers, vendors, porters)

Alert Level : GREEN – Be Ready During Heat Season

What This Means:

Prepare sites and staff before heat season

Actions:

- Ensure drinking water and shaded rest areas at all major sites
- Display simple boards and IEC advisories (avoid Peak hours outdoor activities, drink water, call “108”)
- Train guides/staff to identify heat illness and direct to “108”
- Identify high-risk sites (open areas, long queues, trekking routes)

Alert Level: YELLOW – Awareness + Preparation

What This Means:

Heat increasing, early risk

Actions:

- Advise tourists: carry water, wear light clothing
- Inform via hotels, ticket counters, guides
- Ensure all water points are working
- Brief group tours and pilgrims on heat precautions

Alert Level High heat risk – ORANGE – Action**What This Means for Your Department:**

- High risk of heat illness, especially vulnerable groups.
- Immediate protective measures required at high heat risk alert tourist locations.

Risk if Action Not Taken:

- Tourists remain exposed during peak hours. Heat illness cases rise. Workers on duty might face health risks.

Actions:

- Issue daily advisory with timing
- Limit entry / shift visiting hours (morning & evening)
- Announce/display next 2-day heat risk (from KSNDMC) at sites
- Instruct security personnel to make regular announcements
- Reschedule outdoor activities (treks, safaris, walks)
- Manage long queues – shift timings / provide breaks in shade
- Deploy staff to identify distress and call 108

Alert Level; RED – Emergency**What This Means for Your Department:**

Extreme heat conditions. Tourist safety requires immediate action.

Risk if Action Not Taken:

In the absence of timely communication during extreme heat, preventable heat-related deaths may occur, particularly among elderly and chronically ill persons, and health staff may not be adequately prepared to respond.

Actions:

- Stop/limit outdoor activities during peak hours
- Reschedule or disperse long queues; avoid crowding in sun
- Direct tourists to shaded/indoor areas
- Ensure staff actively guide and respond to emergencies
- Report heat incidents to District Control Room
- Issue urgent advisories (stay indoors 11–4, drink water, call “108”)

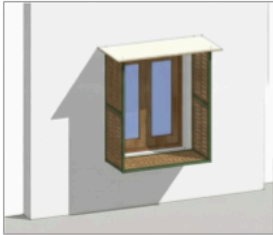
Annexure 11: Passive Cooling Measures – External Window Shading Guidelines for Buildings

Reference: NDMA Guidelines for Cooling Centers (May 2025), Annexure A (extracted from Eco-Niwas Samhita 2018).

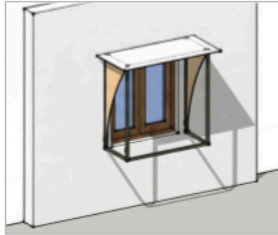
External shading blocks solar radiation before it reaches the glass and is effective in hot-dry (Northern Karnataka) as well as warm-humid coastal zones (Mangalore-Udupi belt). It reduces indoor heat gain by 70-80% and lowers dependence on cooling centers and air-conditioners. Guidelines by Window Orientation (applicable across Karnataka latitudes below Tropic of Cancer):

Window Orientation	Recommended Shading Strategy	Hot-Dry Regions (North Interior Karnataka)	Warm-Humid / Coastal Regions	Key Purpose
North Figure 8.A (a)	Vertical side fins (left & right); optional light overhang	Fixed bamboo/wooden side fins	Movable bamboo chiks (allow airflow)	Reduce diffuse heat gain while maintaining daylight
South Figure 8.A (b)	Horizontal overhang (chhajja) + optional side fins	Fixed chhajja or slab projection	Perforated or ventilated screens	Block high-angle sun while allowing ventilation
East / West Figure 8.A (c)	Full vertical front shading (preferably movable)	Bamboo chiks / perforated metal screens	Roll-up bamboo chiks (ventilation critical)	Block low-angle morning/evening sun (highest heat gain)
North-East / North-West Figure 8.A (d)	Combination of vertical and partial front shading	Fixed or movable bamboo screens	Movable ventilated screens	Manage angled solar exposure with airflow
All Orientations (General Guidance)	Ensure shading is external and allows airflow	Use locally available materials (bamboo, cloth, jute)	Prioritise ventilation and moisture control	Reduce indoor heat gain before it enters the building

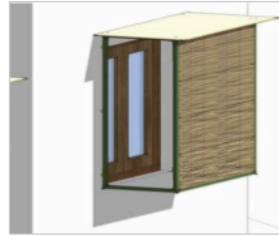
(a) Window Direction :
North



(b) Window Direction :
South



(c) Window Direction :
East / West



(d) Window Direction :
NorthEast / NorthWest



Figure 8.A : Very Low cost and effective method to block the direct sunlight reaching indoor through windows. Guidelines by Window Orientation. (a) North, (b) South, (c) East/ West and (d) North-East / North-West

Annexure 12: Passive Cooling Measures – Cool Roof

Reference: HOUSE OWNERS' GUIDE TO ALTERNATE ROOF COOLING SOLUTIONS

<https://ndma.gov.in/sites/default/files/PDF/Guidelines/Cool-Roof-Handbook.pdf>

Low-cost building-level cooling solutions can help reduce indoor heat exposure, especially in homes without air conditioning. The National Disaster Management Authority (NDMA) recommends simple roof-cooling strategies such as:

Green net shading (Figure 8.B (a)): Shading nets over roofs or terraces reduce direct solar heat gain and can lower indoor temperatures by approximately 2–4°C, depending on design and ventilation.

Cool roof paint (Figure 8.B (b)): Reflective coatings reduce heat absorption and can lower indoor temperatures by around 2–5°C.

These measures are low-cost, scalable, and suitable for urban and peri-urban areas, and can be promoted through community awareness and local initiatives.

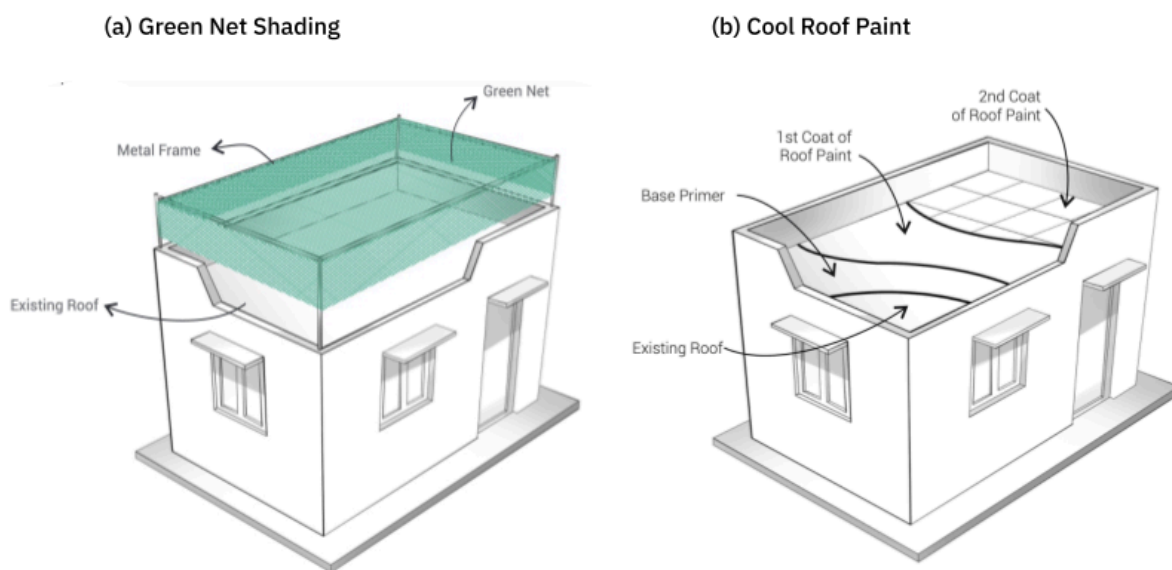


Figure 8.B : Low-Cost proven simple passive technologies to reduce the indoor heat exposure.

(a) Green net shading. (b) Cool roof paint

Annexure 13: Passive Cooling Measures – Terrace Gardens

Reference: HOUSE OWNERS' GUIDE TO ALTERNATE ROOF COOLING SOLUTIONS

<https://ndma.gov.in/sites/default/files/PDF/Guidelines/Cool-Roof-Handbook.pdf>

Additional passive cooling measures can further reduce heat exposure at the building level. These nature-based solutions are effective, sustainable, and suitable for both residential and community spaces.

Terrace gardens:

Reduce heat absorption and provide natural insulation, while improving air quality and cooling the surrounding environment (see, Figure 8A.a).

Pergola and trellis structures:

Offer shaded outdoor spaces and reduce direct solar heat gain, improving thermal comfort (see, Figure 8A.b).

Vertical greens and creepers:

Provide shading and can reduce building and indoor temperatures (typically by 2–8°C), while improving air quality (see, Figure 8C.c).

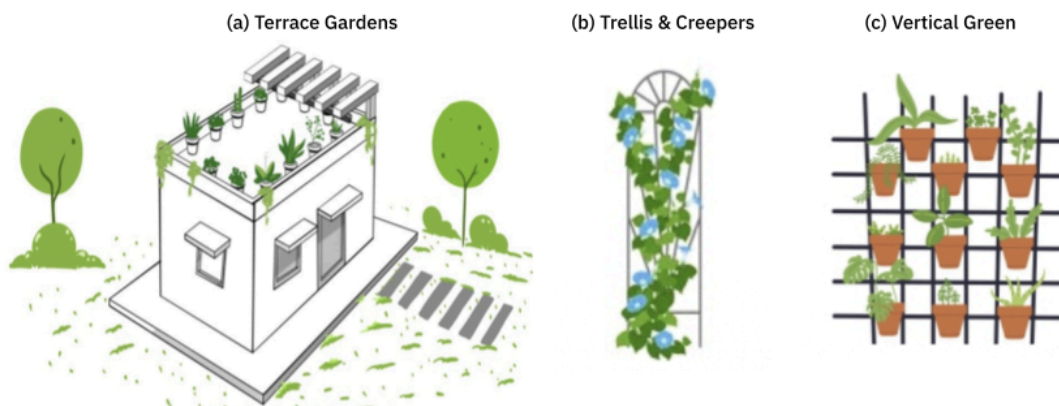


Figure 8.C : (a) Terrace Garden for Passive Cooling and Thermal Insulation. (b) pergola/trellis structures providing shade and thermal comfort. (c) Vertical green systems for reducing building heat exposure.

Annexure 14: Cooling Measures – Community Cooling Spaces

Reference: NDMA Guidelines for Heatwave Management –

<https://heathealth.info/wp-content/uploads/NDMA-Cooling-centre-guidelines.pdf>

Community-level cooling spaces provide immediate relief during extreme heat, particularly for vulnerable populations who may not have access to adequate cooling at home. These spaces help reduce heat exposure, prevent heat-related illnesses, and support public safety during peak heat hours.

Existing public infrastructure should be leveraged for setting up community cooling spaces, enabling rapid deployment, lower costs, and wider accessibility (see Table 8.D.. Where suitable spaces are not available, low-cost temporary solutions may be adopted using locally available materials (See Figure 8D).

Case Example: Net-Zero Cooling Station (Jodhpur, 2024)

In April 2024, Mahila Housing Trust (MHT), in collaboration with Jodhpur Nagar Nigam North (JNNN), established a first-of-its-kind net-zero cooling station in a heat-vulnerable ward of Jodhpur North (Figure 8D(a) and Figure 8D(b)).

The cooling station uses a direct evaporative cooling system, where water is periodically sprinkled over *khus* (vetiver) panels. Air is then drawn through these wet panels using a turbo ventilator, resulting in significant cooling without the use of conventional air conditioning.

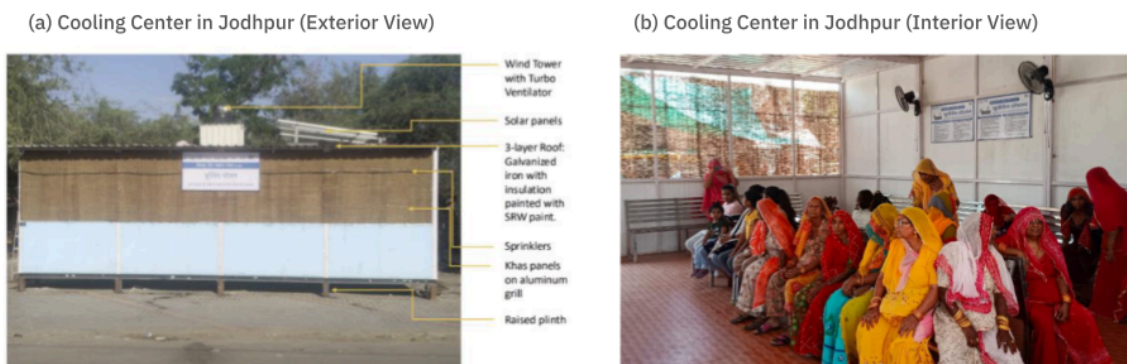


Figure 8.D: Net-zero cooling station in a heat-vulnerable ward of Jodhpur developed by Mahila Housing Trust (MHT), in collaboration with Jodhpur Nagar Nigam North (JNNN). (a) Exterior view. (b) Interior view.

Table 8.A: Using Existing Structures as Cooling Shelters (Recommended Approach)

Step	Action	What to Do (Quick Adaptation)
1. Identify Structure	Select suitable building	Use schools/ anganwadi centres, panchayat buildings, community halls, and bus shelters. Avoid structures with asbestos or tin sheet roofing unless proper insulation or false ceiling is available.(Refer to Annexure 8.2)
2. Check Heat Exposure	Reduce direct sunlight	Close sun-facing windows/doors; use curtains, cloth, or temporary shading outside (Refer to Annexure 8.1)
3. Improve Ventilation	Ensure airflow	Open opposite windows/doors; avoid fully closed rooms; allow cross ventilation
4. Add Cooling Measures	Reduce indoor heat	Use fans if electricity available; add wet cloth/gunny bags near windows; use shaded areas/verandahs
5. Drinking Water	Ensure hydration	Place water cans/matka in shaded indoor area; ensure regular refill
6. Seating Arrangement	Provide comfort	Arrange chairs/mats in shaded, ventilated part of building; avoid overcrowding
7. Electricity Check	Ensure basic supply	Check power for fans and lights; arrange extension if needed
8. Signage & Awareness	Inform public	display signage; inform via panchayat/whatsapp; include emergency numbers

Annexure 15: Cooling Measures – Livestock Shelter Cooling

Reference: NDMA / Animal Husbandry advisories. ICAR-CRIDA (2022) – *Heat Wave: Causes, Impacts and Way Forward for Indian Agriculture*.

Livestock are highly vulnerable to heat stress, which can affect their health, productivity, and survival. Low-cost and practical cooling measures can be implemented at the farm level to reduce thermal stress, especially during peak heat periods.

Key Measures – Low-cost, easy to implement, and can significantly reduce heat stress, improve animal comfort, and maintain productivity during extreme heat conditions.

Shaded shelters with good ventilation to reduce direct heat exposure and allow airflow (see, Figure 8G.a & c).

Shift feeding and grazing to cooler hours (early morning and evening) and avoid exposure during peak heat hours (11 AM–4 PM). See (see, Figure 8G.a & c).

Providing green fodder, and mineral mixture (50–70 g/day), along with access to drinking water in shaded areas, helps reduce heat stress and minimise milk yield loss. (see, Figure 8G.d)).

Avoid overcrowding to reduce heat buildup and improve comfort

Use of wet gunny bags or cloth for evaporative cooling in animal sheds (see, Figure 8G. B & d).

Regular water sprinkling on animals and shed surfaces to reduce heat load (see, Figure 8G.e & f).



Figure 8.E: Livestock Heat Stress and Mitigation & Adaptation Strategies.

Annexure 16: Cooling Measures – Agriculture & Horticulture

Reference: ICAR-CRIDA (2022) – *Heat Wave: Causes, Impacts and Way Forward for Indian Agriculture*

Crops are highly sensitive to heat stress, especially during critical growth stages such as flowering and grain filling. Evidence from ICAR-CRIDA (2022) shows that heatwaves can lead to forced maturity, grain shrivelling, flower drop, and yield losses (often 10–25%), primarily due to increased evapotranspiration and moisture stress (see, Figure 8G. a-c).

Low-cost, field-level measures can significantly reduce heat stress and protect crop productivity (see, Table 8.B).

Table 8.B: Cooling Measures – Agriculture & Horticulture		
Category	Key Actions (Field-Level)	Why It Matters
Soil Moisture Conservation	Apply mulching (crop residue, straw, organic mulch)	Reduces soil temperature and evaporation; maintains moisture during heat
Irrigation Management	Irrigate during early morning/evening; provide protective irrigation; avoid peak-hour irrigation	Reduces moisture stress caused by high evapotranspiration
Crop & Field Operations	Avoid spraying and field work during peak heat hours; shift to cooler periods	Prevents plant stress and improves input efficiency
Critical Stage Protection	Prioritise protection during flowering, grain filling, and fruiting stages	Crops are most sensitive to heat during these stages
Horticulture Protection	Use shade nets (35%, white or green) for nurseries/vegetables; mulch around trees; protect fruits from sunburn	Reduces direct heat exposure and prevents flower/fruit loss

Table 8.B: Cooling Measures – Agriculture & Horticulture		
Category	Key Actions (Field-Level)	Why It Matters
	(see, Figure 8G. d–f)	
Heat-Resilient Practices	Use heat-tolerant varieties; adjust sowing dates; adopt micro-irrigation where feasible	Improves long-term resilience to heat stress
Microclimate Management	Use windbreaks/shelterbelts where feasible	Reduces impact of hot, dry winds

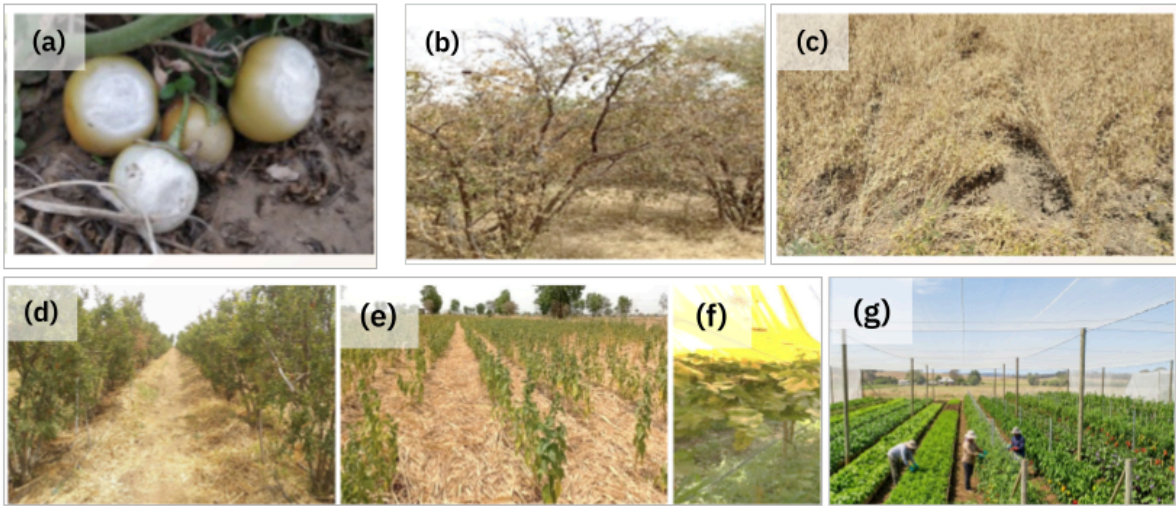


Figure 8.F: Impact of heat waves on (a) tomato, (b) pomegranate and (c) chickpeas plants. Mitigation and adaptation strategies Straw mulching (d and f) and covering with shade nets (f and g).

Annexure 17: Heat Risk and Protective Measures for Pregnant Women

Reference: NCDC / MoHFW – Training Manual for Medical Officers on Prevention and Management of Heat-Related Illnesses, and CDC / MoHFW – Public Health Advisory: Extreme Heat/Heatwave (2024).

Pregnant women are more vulnerable to heat stress due to increased body heat load and physiological changes. Extreme heat can affect both maternal health and fetal well-being, increasing risks such as dehydration, fatigue, reduced nutrient supply to the fetus, and complications including preterm labour and low birth weight.

Key Protective Measures (During Heat Season)	Low-Cost Cooling Measures for Households
● Avoid exposure during peak heat hours (11 AM–4 PM) ● Ensure regular hydration (approximately 3–4 litres/day), including water, ORS, buttermilk, lime water, or tender coconut water ● Rest in shaded, well-ventilated spaces ● Avoid heavy physical work during heat alerts ● Wear light, loose cotton clothing ● Use simple cooling methods such as damp cloths on the neck/forehead or foot immersion in cool water if feeling overheated	To reduce indoor heat exposure, particularly as pregnant women spend more time indoors, ● Window shading: Windows exposed to direct sunlight in rooms where pregnant women spend most of their time should be shaded using simple external measures (refer Annexure 8.A). ● Cool roof and shading: Reflective (cool roof) coatings or green net shading can reduce indoor temperatures (refer Annexure 8.B). ● Ventilation and airflow: Use curtains or window shading, ensure cross ventilation, and use fans where available.

Role of Frontline Workers

- ASHA to identify and monitor high-risk pregnant women during heat alerts
- Provide guidance on hydration, rest, and early warning signs
- Facilitate timely referral and antenatal care access
- Distribute ORS/electrolytes where available

During high heat stress alerts issued by KSNDMC, frontline workers should inform pregnant women to follow recommended heat safety practices using IEC materials.

Annexure 18: Heat Risk and Protective Measures for Mass Gatherings/Sport Event

Reference: NDMA Guidelines for Heatwave Management; MoHFW Public Health Advisory. https://ncdc.mohfw.gov.in/wp-content/uploads/2024/03/NPCCHH_Public-health-advisory_Extreme-heat_Heatwave_2024.pdf

Mass gatherings such as fairs, festivals, religious events, markets, and public functions increase the risk of heat-related illness due to crowding, prolonged exposure, and limited access to shade and water. Proper planning and on-site measures are essential to reduce heat risk and ensure public safety during heat alerts.

Key Risk Factors			
High crowd density and limited airflow	Exposure during peak heat hours (11 AM–4 PM)	Inadequate access to drinking water and shade	Vulnerable groups (elderly, children, pregnant women) in attendance

Table 8.C : Action Items for Protective Measures for Mass Gatherings/Sport Event		
Category	Key Actions	Why It Matters
Event Planning	Avoid scheduling during peak heat hours (11 AM–4 PM); reschedule during extreme heat alerts where feasible	Reduces direct heat exposure
Water & Hydration	Ensure adequate drinking water points; provide ORS/electrolytes where feasible; display hydration messages	Prevents dehydration and heat illness
Shade & Rest Areas	Provide shaded spaces (tents, green nets, shamianas); use existing shaded structures; create rest/cooling areas	Reduces heat exposure and provides recovery space

Crowd Management	Avoid overcrowding; ensure movement and spacing; provide shaded waiting areas in queues	Improves airflow and reduces heat buildup
Health Preparedness	Arrange first-aid and medical support; keep “108” ambulance on standby; train staff to recognise heat illness	Enables early response and treatment
Public Awareness	Announce heat safety messages via PA systems; display IEC materials; advise people to avoid prolonged exposure	Improves awareness and early action
Vulnerable Groups	Ensure priority access to shade and water for elderly, children, pregnant women, and persons with illness	Protects high-risk populations

Key Message

Adequate shade, drinking water, crowd management, and timely communication can significantly reduce heat-related illness during mass gatherings.

Implementation Note

District administration and event organisers should integrate these measures during heat alerts issued by KSNDMC/IMD.

Annexure 19: IEC Materials and Public Communication Tools

All the IEC poster can be downloaded from <https://www.who.int/india/heat-waves> & <https://www.who.int/india/beat-the-heat>



Annexure 20: KSNDMC Station-Derived Percentile Thresholds for Heat Event Identification for March

T_{max} — Daily maximum temperature. The highest temperature recorded at a station in a given day.

T_{min} — Daily minimum temperature. The lowest temperature recorded at a station in a given day.

P_{90} (90th percentile) — The value below which 90% of the observations fall. Equivalently, exceeded on 10% of days in the reference period.

P_{95} (95th percentile) — Exceeded 5% of days in the reference period.

P_{98} (98th percentile) — Exceeded 2% of days in the reference period.

Time Period – 2017-2022

STATION CODE	DISTRICT	TALUK	HOBLI	T_{min}^* P_{90}	T_{min}^* P_{95}	T_{min}^* P_{98}	T_{max}^* P_{90}	T_{max}^* P_{95}	T_{max}^* P_{98}
5555	Bagalkote	Badami	Badami	24.0	24.5	25.1	38.3	39.2	39.5
5557	Bagalkote	Badami	Kerur	24.8	25.2	25.7	38.3	38.9	39.5
5556	Bagalkote	Badami	Kulgeri	23.7	24.2	24.3	38.6	39.2	39.4
5518	Bagalkote	Bagalkote	Bagalkote	24.1	24.9	25.3	38.5	38.9	40.0
5548	Bagalkote	Bagalkote	Kaladgi	22.9	23.6	24.3	38.4	38.9	40.2
5550	Bagalkote	Bagalkote	Rampura (Sitimani)	24.4	25.7	26.4	39.2	39.7	40.1
5547	Bagalkote	Bilgi	Anagvadi	23.5	24.3	25.0	38.7	39.1	40.1
5520	Bagalkote	Bilgi	Bilgi	25.3	25.6	26.2	38.3	38.9	39.6
5554	Bagalkote	Guledagudda	Guledagudda	25.4	25.8	26.2	38.9	39.2	40.4
5553	Bagalkote	Hungund	Amingarh	25.5	26.3	27.0	39.0	39.8	40.6
428	Bagalkote	Hungund	Hungund_1	24.0	25.2	25.6	38.7	39.3	39.8
5552	Bagalkote	Ilkal	Ilkal	23.7	25.0	27.0	39.4	40.3	41.0
5551	Bagalkote	Ilkal	Karadi	24.0	25.2	26.3	39.5	39.9	41.2
5519	Bagalkote	Jamkhandi	Jamkhandi	23.5	24.3	24.6	39.2	39.9	40.9
5558	Bagalkote	Jamkhandi	Savalagi	23.8	24.5	25.2	39.5	40.1	40.7
5549	Bagalkote	Mudhol	Lokapur	22.6	23.6	24.0	38.4	38.9	40.1
5546	Bagalkote	Mudhol	Mudhol	24.1	24.5	25.1	39.5	40.1	40.9
5545	Bagalkote	Rabakavi Banahatti	Terdal	23.1	23.6	24.3	38.9	39.8	40.7
8003	Ballari	Ballari	Ballari	24.9	25.5	25.9	40.1	40.7	41.3
7540	Ballari	Ballari	Moka	23.9	24.5	25.0	39.2	39.5	39.9
7537	Ballari	Ballari	Rupanagudi	24.6	25.1	26.1	40.3	41.3	41.8
7546	Ballari	Kampli	Kampli	25.0	25.3	26.0	39.0	39.4	40.2
7538	Ballari	Kurugodu	Koluru	25.5	26.2	26.3	40.4	41.0	41.2
7539	Ballari	Kurugodu	Kurugodu	25.7	26.3	27.4	39.9	40.6	41.1
7548	Ballari	Sandur	Choranuru	23.5	24.3	24.8	37.7	38.5	38.8
8001	Ballari	Sandur	Sandur	24.3	24.9	25.2	38.3	38.9	39.4
7549	Ballari	Sandur	Toranagallu	26.4	26.8	27.2	39.6	40.1	40.8
7541	Ballari	Siruguppa	Hachcholli	24.3	25.0	25.4	41.3	41.7	42.4
7542	Ballari	Siruguppa	Karuru	25.1	25.7	26.2	40.0	41.0	41.1
7543	Ballari	Siruguppa	Siruguppa	25.2	25.7	26.3	40.5	41.1	41.4
7544	Ballari	Siruguppa	Tekkalakote	25.3	26.0	26.2	40.7	41.3	42.3
5642	Belagavi	Athani	Anantapur	23.5	24.4	24.9	38.4	39.1	40.5
573	Belagavi	Athani	Athani_1	23.7	24.4	24.8	39.3	40.4	40.8
5644	Belagavi	Athani	Telsang	23.3	23.8	24.7	39.3	40.3	41.0
301	Belagavi	Bailhongal	Baihongal_1	23.1	23.6	24.2	37.6	38.0	38.9

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STATION CODE	DISTRICT	TALUK	HOBLI	T_{min}' P_{90}	T_{min}' P_{95}	T_{min}' P_{98}	T_{max}' P_{90}	T_{max}' P_{95}	T_{max}' P_{98}
5633	Belagavi	Bailhongal	Nesargi	22.8	23.1	23.5	37.5	38.3	39.1
5516	Belagavi	Belagavi	Belgaum	22.2	22.8	23.1	36.6	37.8	38.7
5646	Belagavi	Belagavi	Hirebagevadi (Chandur)	22.6	22.8	23.3	37.9	38.5	39.2
5645	Belagavi	Belagavi	Kakti	21.9	22.6	23.0	36.7	37.5	38.7
5649	Belagavi	Belagavi	Uchagaon	22.2	22.6	23.1	38.6	39.4	40.1
5626	Belagavi	Chikkodi	Chikkodi	22.8	23.5	24.3	38.9	39.4	40.2
5628	Belagavi	Chikkodi	Nagaramonnali	22.7	23.2	24.4	38.5	39.8	40.7
5625	Belagavi	Chikkodi	Sadalgi	23.0	23.6	23.9	38.5	39.4	39.9
5632	Belagavi	Gokak	Gokak	23.0	23.7	25.0	39.3	39.7	39.9
5634	Belagavi	Gokak	Kowjalgi	22.5	22.9	23.0	38.4	39.0	39.5
576	Belagavi	Hukkeri	Hukkeri_1	22.2	22.7	23.6	38.2	39.2	39.8
5629	Belagavi	Hukkeri	Sankeswar	22.5	23.1	24.0	39.0	39.4	40.3
5630	Belagavi	Hukkeri	Yamkanmardi	21.9	22.6	22.9	37.6	38.2	39.3
5643	Belagavi	Kagavada	Kagwad	23.4	24.0	25.0	39.1	39.9	40.3
5647	Belagavi	Khanapur	Bidi	22.3	22.9	23.4	37.6	37.8	38.7
5648	Belagavi	Khanapur	Gunji	22.2	22.7	23.6	37.9	38.6	38.8
5650	Belagavi	Khanapur	Jamboti	21.8	22.4	23.0	37.6	38.5	38.8
303	Belagavi	Khanapur	Khanapur	21.8	22.5	23.1	38.0	38.7	38.8
5638	Belagavi	Kitthuru	Hirenadihalli	21.6	22.0	22.5	37.0	37.4	38.1
5631	Belagavi	Mudalagi	Arbhavi	22.7	23.1	23.8	38.9	39.7	40.2
5627	Belagavi	Nippani	Nipani	23.0	23.9	24.4	39.8	40.0	40.8
5624	Belagavi	Raibagh	Kudchi	23.8	24.5	25.3	39.8	40.0	40.8
318	Belagavi	Raibagh	Raibagh	22.5	22.9	23.4	39.6	40.3	40.8
5640	Belagavi	Ramadurga	Bidki (K.Chandaragi)	23.4	23.9	24.3	38.9	39.2	40.0
5639	Belagavi	Ramadurga	Katkol	23.4	24.4	24.9	38.8	39.3	39.7
5641	Belagavi	Ramadurga	Mudkavi	24.5	25.0	25.3	38.5	39.0	40.0
5517	Belagavi	Ramadurga	Ramdurg	24.4	24.8	25.4	38.6	39.1	40.0
324	Belagavi	Soundatti	Badli	23.7	24.1	24.6	38.6	39.3	39.8
5636	Belagavi	Soundatti	Manoli	23.3	23.9	24.5	38.5	39.1	40.1
5637	Belagavi	Soundatti	Muragoda	23.4	24.0	24.4	37.2	37.6	39.0
5635	Belagavi	Yaragatti	Yargatti	22.9	23.3	23.6	37.2	37.9	39.1
3561	Bengaluru Rural	Devanahalli	Channarayapatna	20.5	21.1	21.9	35.5	36.2	36.8
375	Bengaluru Rural	Devanahalli	Devanahalli_1	21.4	21.7	22.3	35.2	35.5	35.6
3523	Bengaluru Rural	Devanahalli	Kundana	21.0	21.3	21.9	35.6	36.1	36.7
3563	Bengaluru Rural	Devanahalli	Vijayapura	21.6	22.2	23.5	37.0	37.4	38.0
3515	Bengaluru Rural	Doddaballapura	Dodballapur	21.6	22.0	22.1	36.2	37.0	37.4
3503	Bengaluru Rural	Doddaballapura	Dodbelavangala	20.8	21.3	21.8	35.7	36.2	36.8
3514	Bengaluru Rural	Doddaballapura	Madhure (Kanasawadi)	20.5	20.9	21.9	35.5	35.8	36.4
3765	Bengaluru Rural	Doddaballapura	Sasalu	22.2	22.5	22.8	36.8	37.4	37.8
3518	Bengaluru Rural	Doddaballapura	Tubagere	21.0	21.9	22.2	36.1	36.4	36.8
3549	Bengaluru Rural	Hosakote	Anugondhalli	21.4	22.0	22.7	35.8	36.7	37.1
3560	Bengaluru Rural	Hosakote	Jadigenhalli	20.9	21.5	21.9	35.1	35.5	36.3
3552	Bengaluru Rural	Hosakote	Nandagudi	20.5	21.1	21.9	34.8	35.2	35.6
3562	Bengaluru Rural	Hosakote	Sulibele	21.0	21.8	22.6	35.8	36.3	36.8
686	Bengaluru Rural	Nelamangala	Nelamangala_1	22.0	22.3	22.9	36.5	36.8	37.0
3516	Bengaluru Rural	Nelamangala	Sampura	21.5	21.7	22.1	36.0	36.6	36.8
3517	Bengaluru Rural	Nelamangala	Tyamagondal	21.5	22.1	22.6	36.6	36.8	37.0
7634	Bengaluru South	Channapatna	Channapatna	23.7	24.0	24.4	38.4	38.8	38.8
7649	Bengaluru South	Channapatna	Hakkuru Hosahalli (Virupakshapu	23.4	23.7	23.9	38.6	39.2	39.9
7636	Bengaluru South	Channapatna	Mallur	22.9	23.6	24.3	38.4	38.8	39.2
10202	Bengaluru South	Harohalli	Bnp-Bugurikallu	22.8	22.9	22.9	37.3	37.8	38.2

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STATION CODE	DISTRICT	TALUK	HOBLI	T_{min}' P_{90}	T_{min}' P_{95}	T_{min}' P_{98}	T_{max}' P_{90}	T_{max}' P_{95}	T_{max}' P_{98}
7635	Bengaluru South	Harohalli	Dodda Maralavadi	22.4	23.3	23.7	37.6	38.2	39.4
7637	Bengaluru South	Harohalli	Harohalli	22.7	23.5	24.1	37.7	38.3	39.1
7639	Bengaluru South	Kanakapura	Kodihalli	22.4	22.9	23.5	38.0	38.4	38.6
7645	Bengaluru South	Kanakapura	Satnuru	23.9	24.4	25.4	39.3	40.1	40.5
7648	Bengaluru South	Kanakapura	Uyyamballi	23.9	24.3	25.1	38.5	38.6	39.2
7642	Bengaluru South	Magadi	Chandurayanahalli	22.1	22.9	23.1	38.1	38.8	39.5
7641	Bengaluru South	Magadi	Kuduru	22.0	22.5	22.9	37.4	37.8	38.5
7643	Bengaluru South	Magadi	Magadi	22.1	22.6	23.0	37.9	38.7	39.3
7646	Bengaluru South	Magadi	Solur	22.5	23.1	23.4	37.8	38.2	38.5
7647	Bengaluru South	Magadi	Tippasanara	21.6	22.1	22.3	37.2	37.8	38.2
7640	Bengaluru South	Ramanagara	Kutgallu	22.1	23.0	23.9	38.3	38.6	39.0
7633	Bengaluru South	Ramanagara	Mayaganahalli	22.8	23.4	23.7	38.3	38.8	39.3
7644	Bengaluru South	Ramanagara	Ramanagara	24.3	24.8	25.2	38.3	38.6	38.9
672	Bengaluru Urban	Anekal	Anekal_1	21.5	21.8	22.6	36.1	36.5	36.9
3756	Bengaluru Urban	Anekal	Bommasandra	21.6	21.8	22.6	36.3	36.9	37.7
3764	Bengaluru Urban	Anekal	Sarjapur	22.0	22.7	23.2	36.5	37.0	37.4
3524	Bengaluru Urban	Bengaluru East	Hagaduru	22.3	22.8	22.9	36.3	37.0	37.6
3755	Bengaluru Urban	Bengaluru East	Kadugodi	22.1	22.5	22.9	37.4	37.6	38.0
3706	Bengaluru Urban	Bengaluru North	Yashavanthapur	22.7	22.9	23.3	35.5	36.2	36.9
3754	Bengaluru Urban	Bengaluru South	B.T.M.Layout	22.6	22.9	23.6	36.6	37.2	37.5
3731	Bengaluru Urban	Bengaluru South	Bommanahalli_Konanakunte	22.2	22.8	23.7	36.9	37.4	37.6
10201	Bengaluru Urban	Bengaluru South	Doresanipalya (Empri)	22.1	22.2	22.3	36.0	36.4	36.7
3520	Bengaluru Urban	Bengaluru South	Kg Halli (Gonipura)	22.0	22.2	22.5	37.8	38.3	38.9
3700	Bengaluru Urban	Bengaluru South	Tavarekere	21.6	22.1	22.3	37.1	37.5	37.9
3672	Bengaluru Urban	Bengaluru South	Uttarahalli	22.0	22.4	22.7	36.8	37.7	38.0
3743	Bengaluru Urban	Yelahanka	Hesaragatta	21.8	22.3	22.6	36.4	36.7	37.0
765	Bengaluru Urban	Yelahanka	Jala	22.2	22.5	23.1	36.5	36.8	37.1
7002	Bengaluru Urban	Yelahanka	Geoege_1	22.4	23.1	23.8	35.2	35.7	36.2
3742	Bengaluru Urban	Yelahanka	Rajanukunte	21.6	22.0	22.5	36.9	37.2	37.5
1050	Bengaluru Urban	Yelahanka	Yelankha (Ksndmc)	21.6	22.4	23.0	35.6	35.9	36.2
703	Bidar	Aurad	Aurad_1	24.7	25.4	26.3	40.0	40.5	40.7
5662	Bidar	Aurad	Chintaki	24.6	25.5	26.0	40.3	41.1	41.3
5664	Bidar	Aurad	Santpur	25.4	25.8	26.6	40.7	41.0	41.3
488	Bidar	Basavakalyan	Basavakalyan_1	22.9	23.6	24.8	39.4	40.1	41.3
5673	Bidar	Basavakalyan	Kohinoor	23.1	24.0	24.6	38.6	39.7	40.6
5672	Bidar	Basavakalyan	Matala	23.8	24.8	25.6	39.1	39.6	40.1
5674	Bidar	Basavakalyan	Mudabi	24.1	24.8	25.6	39.1	39.9	40.6
5670	Bidar	Basavakalyan	Rajeshwar	24.0	24.7	25.4	38.6	39.3	40.0
5657	Bidar	Bhalki	Bhalki	23.6	24.4	25.2	39.2	39.6	40.4
5658	Bidar	Bhalki	Halburga	23.4	24.5	25.0	39.2	40.1	40.7
5656	Bidar	Bhalki	Khatak Chincholi	24.5	25.5	27.2	40.0	40.5	40.9
5659	Bidar	Bhalki	Lakangaon	23.2	24.0	24.8	39.5	40.1	40.7
8005	Bidar	Bhalki	Nittur Buzurg	23.4	24.3	24.9	40.2	41.2	41.4
5676	Bidar	Bhalki	Saigaon	23.0	23.4	24.3	38.2	38.9	39.7
5654	Bidar	Bidar	Bagadhal	24.5	25.6	26.2	40.5	41.2	41.7
5666	Bidar	Bidar	Bidar	24.6	25.4	26.4	39.5	40.3	41.1
5667	Bidar	Bidar	Bidar South (Halladakere)	25.3	26.3	27.4	39.6	40.5	41.2
5665	Bidar	Bidar	Janwada	23.3	24.1	25.1	38.3	39.4	40.4
5668	Bidar	Bidar	Kamthana	24.1	25.3	26.4	39.0	40.3	41.2
5669	Bidar	Bidar	Manalli	22.2	23.1	23.5	38.5	39.6	40.5
5653	Bidar	Chittaguppa	Bhimalkhed	23.9	24.8	25.4	39.0	40.1	40.5

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5651	Bidar	Chittaguppa	Chitgoppa	24.4	25.1	26.3	39.5	40.2	40.7
5652	Bidar	Chittaguppa	Nirna	24.5	25.4	26.6	40.0	40.6	41.2
5675	Bidar	Hulasuru	Hulsur	23.8	24.8	25.8	38.4	39.4	40.6
5671	Bidar	Humnabad	Dubalgundi	23.9	24.9	26.1	39.6	40.1	40.8
5655	Bidar	Humnabad	Hallikhedda	23.2	24.1	24.8	39.7	40.1	40.7
8004	Bidar	Humnabad	Humnabad	23.5	23.8	24.9	39.6	40.3	41.0
5661	Bidar	Kamalanagara	Dabaka	24.1	24.9	26.3	39.8	40.4	40.7
5660	Bidar	Kamalanagara	Kamalnagar	24.1	24.6	25.4	39.6	40.0	40.7
5663	Bidar	Kamalanagara	Thanakushanur	23.7	24.3	25.4	39.3	40.1	40.9
746	Chamarajanagara	Chamarajanagara	Chamarajanagar	21.6	22.2	22.4	37.9	38.2	38.9
214	Chamarajanagara	Chamarajanagara	Chandakavadi	21.3	21.8	22.4	36.5	36.8	37.2
234	Chamarajanagara	Chamarajanagara	Haradanhalli	21.1	21.7	22.4	36.4	36.7	37.0
266	Chamarajanagara	Chamarajanagara	Harve	20.9	21.2	21.8	35.8	36.1	36.4
520	Chamarajanagara	Chamarajanagara	Santemarahalli	22.3	22.6	22.9	37.5	37.7	38.2
744	Chamarajanagara	Gundlupet	Begur	21.2	21.6	22.3	36.5	37.1	37.3
262	Chamarajanagara	Gundlupet	Gundlupet	20.9	21.1	22.0	36.2	36.8	37.5
518	Chamarajanagara	Gundlupet	Terakanambi	20.9	21.2	21.5	36.0	36.6	37.3
511	Chamarajanagara	Hanur	Hanur	22.2	22.6	23.1	37.5	38.1	38.2
297	Chamarajanagara	Hanur	Lokkanahalli	21.0	21.3	22.1	37.5	38.1	38.6
907	Chamarajanagara	Hanur	Ramapura	21.4	22.0	22.4	36.7	37.0	37.4
296	Chamarajanagara	Kollegal	Kollegal	22.3	22.8	23.2	38.8	39.3	39.7
261	Chamarajanagara	Kollegal	Palya	22.2	22.7	23.1	37.7	38.1	38.2
2191	Chamarajanagara	Yelandur	Agara (Br Hills)	22.0	22.6	23.2	38.0	38.5	39.2
3614	Chikkaballapura	Bagepalli	Bagepalli	22.9	23.4	23.7	37.7	38.1	38.4
3663	Chikkaballapura	Bagepalli	Chelur	22.0	22.5	23.2	38.3	38.7	38.9
3572	Chikkaballapura	Bagepalli	Guluru	23.5	24.1	24.6	37.9	38.4	38.7
3640	Chikkaballapura	Bagepalli	Mittemari	22.8	23.7	24.6	38.3	38.7	38.9
3638	Chikkaballapura	Bagepalli	Pathapalya	24.0	24.6	24.9	37.9	38.4	38.8
3543	Chikkaballapura	Chikkaballapura	Chikkabalapura	21.6	21.9	23.1	36.6	36.9	37.0
3536	Chikkaballapura	Chikkaballapura	Mandikal	22.2	22.4	22.9	36.7	37.1	37.4
3752	Chikkaballapura	Chikkaballapura	Nandi	22.2	22.7	23.1	37.0	37.4	37.8
3679	Chikkaballapura	Chintamani	Chilakalanerpu	21.4	21.8	22.1	37.9	38.4	38.7
3655	Chikkaballapura	Chintamani	Chintamani	21.1	21.6	22.1	36.9	37.4	37.7
3525	Chikkaballapura	Chintamani	Iragampalli (Munganahalli)	21.6	22.0	22.4	37.6	37.7	38.1
3584	Chikkaballapura	Chintamani	Kaiwara	21.6	22.1	22.4	37.0	37.5	38.1
3633	Chikkaballapura	Chintamani	Murugamale (Chelmakate)	20.5	21.3	21.6	36.3	36.9	37.5
3538	Chikkaballapura	Gauribidanur	D.Palya	23.0	23.4	23.9	37.8	38.3	38.6
3541	Chikkaballapura	Gauribidanur	Gauribidanur	22.5	22.8	23.2	37.8	38.6	39.1
7654	Chikkaballapura	Gauribidanur	Gowdagere	23.7	24.3	24.9	38.5	39.0	39.4
3531	Chikkaballapura	Gauribidanur	Hosur	22.2	22.8	23.6	38.0	38.5	38.7
3551	Chikkaballapura	Gauribidanur	Manchenahalli	23.0	23.5	24.1	38.1	38.7	39.1
3542	Chikkaballapura	Gauribidanur	Nagaragere	23.2	23.6	24.1	38.0	38.4	38.8
3544	Chikkaballapura	Gauribidanur	Tondebavi	22.8	23.4	23.7	38.3	38.7	39.1
3535	Chikkaballapura	Gudibanda	Gudibanda	23.1	23.7	24.2	36.4	37.0	37.4
3767	Chikkaballapura	Gudibanda	Somenahalli	21.8	22.4	22.9	38.1	38.8	39.2
3695	Chikkaballapura	Sidlaghatta	Bashattahalli	21.6	22.0	22.3	36.9	37.2	37.4
3545	Chikkaballapura	Sidlaghatta	Jangamakote	21.3	21.9	22.8	36.2	36.7	36.9
3645	Chikkaballapura	Sidlaghatta	Sadali	21.8	22.0	22.4	37.0	37.3	37.7
3539	Chikkaballapura	Sidlaghatta	Sidlaghatta	20.8	21.1	21.5	37.0	37.3	37.6
3556	Chikkamagaluru	Ajjampura	Ajjampur	21.5	21.7	22.5	37.5	37.9	38.2
3766	Chikkamagaluru	Ajjampura	Chowlahiriyur	21.7	22.2	22.9	38.2	38.3	38.8
3565	Chikkamagaluru	Ajjampura	Shivani	21.3	21.7	22.3	37.7	38.3	38.8

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3613	Chikkamagaluru	Chikkamagaluru	Aldur	18.2	19.0	19.5	35.5	36.2	36.3
3735	Chikkamagaluru	Chikkamagaluru	Amble	19.5	20.0	20.4	35.6	35.8	36.2
659	Chikkamagaluru	Chikkamagaluru	Chickmagalur_1	20.0	20.5	21.2	36.4	36.9	37.1
3559	Chikkamagaluru	Chikkamagaluru	Kalasapur	20.7	21.2	21.8	36.5	36.9	37.2
3578	Chikkamagaluru	Chikkamagaluru	Lakya	20.7	21.4	21.6	35.8	36.2	36.5
3684	Chikkamagaluru	Chikkamagaluru	Sangmeswarpet (Khandya)	18.9	19.8	20.2	36.2	36.8	37.1
3664	Chikkamagaluru	Chikkamagaluru	Vasthare	17.9	18.9	19.4	35.5	36.1	36.3
3554	Chikkamagaluru	Kadur	Birur	21.4	21.9	22.4	37.1	37.5	37.8
3627	Chikkamagaluru	Kadur	Hirenalluru	20.9	21.6	22.1	37.4	37.9	38.2
638	Chikkamagaluru	Kadur	Kadur_1	21.3	21.9	22.2	38.1	38.3	38.9
3546	Chikkamagaluru	Kadur	Panchanahalli	21.7	22.3	22.8	37.7	38.3	38.8
3548	Chikkamagaluru	Kadur	Sakkarepatna	20.4	21.1	21.6	37.5	38.0	38.3
3547	Chikkamagaluru	Kadur	Shingatagere	21.3	22.0	22.3	36.7	36.9	37.0
3665	Chikkamagaluru	Kadur	Yagati	21.4	21.9	22.5	37.2	37.7	38.2
3662	Chikkamagaluru	Kalasa	Kalasa	20.5	21.0	21.3	35.8	36.5	37.4
3650	Chikkamagaluru	Koppa	Hariharpur	21.3	21.8	22.4	38.7	39.0	39.5
658	Chikkamagaluru	Koppa	Koppa_1	21.3	21.8	22.5	38.7	39.0	39.5
3639	Chikkamagaluru	Koppa	Meguda (Jayapur)	21.0	21.6	22.4	37.3	37.6	39.1
3632	Chikkamagaluru	Mudigere	Bankal	19.1	19.7	20.6	34.4	35.0	35.9
3648	Chikkamagaluru	Mudigere	Gonibidu	19.6	20.0	20.4	34.7	35.1	35.5
3629	Chikkamagaluru	Mudigere	Javali	19.6	20.3	20.7	35.0	35.6	36.1
3649	Chikkamagaluru	Narasimharajapura	Balehonnur	20.3	20.8	21.4	37.4	37.7	38.7
690	Chikkamagaluru	Narasimharajapura	Narasimharajapur_1	20.5	21.2	21.7	37.1	37.6	37.8
3691	Chikkamagaluru	Sringeri	Kigga	20.6	21.0	21.6	37.8	38.2	38.8
736	Chikkamagaluru	Sringeri	Sringeri_1	20.5	21.0	21.6	37.8	38.2	38.8
3564	Chikkamagaluru	Tarikere	Amrutapur	21.2	21.8	22.2	37.9	38.3	38.6
10200	Chikkamagaluru	Tarikere	Kemmannugundi	21.6	22.4	23.3	36.0	36.5	36.7
3625	Chikkamagaluru	Tarikere	Lakavalli	22.0	22.7	23.1	38.0	38.3	38.8
3553	Chikkamagaluru	Tarikere	Lingadahalli	20.9	21.8	22.7	36.5	36.9	37.2
679	Chikkamagaluru	Tarikere	Tarikere_1	21.4	21.8	22.3	37.8	38.3	38.7
7522	Chitradurga	Challakere	Challakere	25.0	25.6	26.5	39.3	39.6	40.0
7521	Chitradurga	Challakere	Parasurampura	23.6	24.3	24.7	38.9	39.3	40.5
7523	Chitradurga	Challakere	Thalku	23.9	24.3	24.6	39.2	39.7	40.9
7526	Chitradurga	Chitradurga	Bharmasagara	23.1	23.7	24.6	37.9	38.3	39.4
462	Chitradurga	Chitradurga	Chitradurga_1	23.3	23.7	24.4	37.6	38.0	38.2
1044	Chitradurga	Chitradurga	Hgml-Ingaldhal_1	23.7	24.2	25.0	37.5	37.9	38.2
7524	Chitradurga	Chitradurga	Hire Guntanur	23.0	23.3	23.9	37.9	38.6	39.3
7525	Chitradurga	Chitradurga	Turuvanur	23.3	23.7	24.3	37.8	38.4	38.9
7528	Chitradurga	Hiriyur	Aymangala	23.5	24.2	24.8	38.4	38.8	39.3
7529	Chitradurga	Hiriyur	Dharmapura	23.9	24.1	24.6	38.2	38.5	39.1
145	Chitradurga	Hiriyur	Hiriyur_1	23.3	23.7	24.2	38.8	39.9	40.7
7530	Chitradurga	Hiriyur	Javanagondanahalli	23.8	24.3	25.2	39.3	39.7	40.5
7534	Chitradurga	Holalkere	Bharmanaikanadurga	22.6	23.3	23.8	38.4	38.7	39.0
7535	Chitradurga	Holalkere	Ramagiri	22.8	23.2	23.5	38.4	38.8	39.3
7536	Chitradurga	Holalkere	Talya	22.8	23.5	23.8	37.6	38.1	38.8
152	Chitradurga	Hosadurga	Hosdurga_1	22.4	23.1	23.5	37.2	37.8	38.0
7533	Chitradurga	Hosadurga	Madadhakeri	22.4	22.9	23.2	37.2	37.7	38.0
7532	Chitradurga	Hosadurga	Mathodu	23.0	24.0	24.6	38.7	39.4	39.7
7531	Chitradurga	Hosadurga	Srirampura	22.7	23.0	23.5	38.6	39.1	39.4
7527	Chitradurga	Molakalmuru	Molakalmuru	24.8	25.5	26.1	38.4	39.1	39.8
508	Dakshina Kannada	Bantwal	Bantwal	24.4	24.8	25.3	37.0	37.7	39.1

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3728	Dakshina Kannada	Bantwal	Pane Mangalore	24.4	24.8	25.3	37.5	37.9	39.6
3760	Dakshina Kannada	Bantwal	Vitla	24.5	24.8	25.2	38.0	39.0	39.7
509	Dakshina Kannada	Beltangadi	Beltangadi	24.8	25.1	25.6	38.9	39.7	40.3
3626	Dakshina Kannada	Beltangadi	Kokkada	24.3	24.9	25.2	38.7	39.5	39.9
3741	Dakshina Kannada	Beltangadi	Venur	24.5	24.9	25.5	38.0	38.7	39.0
3670	Dakshina Kannada	Kadaba	Kadaba	24.2	24.8	25.2	38.8	39.0	40.0
3661	Dakshina Kannada	Mangaluru	Gurpur	24.8	25.4	25.5	36.9	37.7	38.4
510	Dakshina Kannada	Mangaluru	Mangalore (A)	26.2	26.5	26.8	36.8	37.1	38.8
1051	Dakshina Kannada	Mangaluru	Pilikula	24.9	25.5	25.7	36.8	37.2	38.2
1052	Dakshina Kannada	Mangaluru	Surathkal	26.1	26.3	26.8	36.5	37.0	37.1
3685	Dakshina Kannada	Mudabidri	Mudbidri	24.8	25.1	25.5	37.9	38.6	38.9
3671	Dakshina Kannada	Mulki	Mulki	25.5	26.2	26.4	36.3	36.8	37.1
235	Dakshina Kannada	Puttur	Puttur	24.4	24.8	25.2	39.0	39.7	40.2
3634	Dakshina Kannada	Puttur	Uppinangadi	24.4	24.8	25.4	38.9	39.7	40.0
3718	Dakshina Kannada	Sulya	Mandekolu	24.2	24.9	25.3	38.8	39.1	40.0
3732	Dakshina Kannada	Ullala	Mangalore (B)	26.1	26.5	26.8	36.9	38.5	39.3
7560	Davanagere	Channagiri	Basavapatna (2) Tyavanagi	24.6	24.8	25.3	39.5	40.3	40.8
7571	Davanagere	Channagiri	Channagiri	22.6	23.2	23.6	37.7	38.2	39.3
7572	Davanagere	Channagiri	Sante Bennur (1)	23.3	23.5	24.2	39.0	39.6	40.0
7559	Davanagere	Channagiri	Santebannur (2)Devarahalli	23.5	24.1	25.2	39.2	39.5	40.5
7573	Davanagere	Channagiri	Ubrani	22.5	23.0	23.6	38.1	38.4	38.9
7564	Davanagere	Davanagere	Anogodu	23.7	24.5	25.6	38.8	39.7	40.5
207	Davanagere	Davanagere	Davanagere	23.7	24.8	25.3	39.0	39.6	40.0
7565	Davanagere	Davanagere	Mayakonda	23.2	24.1	25.0	38.6	39.4	39.7
436	Davanagere	Harihara	Harihar_1	22.7	23.5	24.1	38.9	39.4	39.5
7563	Davanagere	Harihara	Malebennur	23.2	23.8	24.6	38.7	39.4	40.0
7562	Davanagere	Honnali	Govinakovi (2)	23.0	23.6	23.7	38.3	38.5	39.3
438	Davanagere	Honnali	Honnali_1	23.4	24.0	24.3	38.9	39.3	40.1
7568	Davanagere	Honnali	Sasavehalli (1)	22.6	23.0	23.6	37.5	38.1	38.5
7566	Davanagere	Honnali	Sasvehalli-2 (Kunduru)	24.3	24.7	25.1	38.8	39.5	40.3
7574	Davanagere	Jagalur	Bilichodu	23.8	24.2	24.6	39.1	39.7	40.0
7576	Davanagere	Jagalur	Sokke	24.0	24.6	25.2	39.2	39.7	40.1
7575	Davanagere	Nyamati	Belagutti	23.3	23.8	24.3	39.1	39.6	40.0
7567	Davanagere	Nyamati	Govinakovi (1)	22.7	23.2	23.7	37.6	38.2	38.5
3722	Dharwad	Alnavara	Alnavar	21.8	22.3	23.0	38.9	39.4	39.8
3724	Dharwad	Annigeri	Annigeri	21.9	22.7	23.9	38.8	39.2	39.7
3725	Dharwad	Dharwad	Aminbhavi	21.6	21.8	22.4	37.6	38.0	38.3
3709	Dharwad	Dharwad	Dharwad	21.7	22.4	23.0	38.3	38.9	39.6
3711	Dharwad	Dharwad	Uppinabetageri	21.1	21.6	22.3	38.2	38.7	39.2
3719	Dharwad	Hubballi	Chabbi	22.3	22.6	23.2	39.5	40.1	40.5
3707	Dharwad	Hubballi	Shirguppi	22.5	23.2	23.6	38.5	39.2	39.7
5515	Dharwad	Hubballi Nagara	Hubli_1	22.6	23.1	23.9	37.5	38.3	39.3
3723	Dharwad	Kalghatgi	Dummavada	21.9	22.4	23.1	38.5	39.0	39.4
5513	Dharwad	Kalghatgi	Kalghatgi	22.5	22.9	23.4	37.7	38.1	38.5
3699	Dharwad	Kalghatgi	Tabkadhonnihalli	22.4	22.6	23.3	38.9	39.3	40.0
5514	Dharwad	Kundgol	Kundgol	23.2	23.8	24.3	38.3	38.8	39.7
3696	Dharwad	Kundgol	Saunshi	22.0	22.4	22.8	37.8	38.2	38.6
3717	Dharwad	Navalgund	Morab	21.3	22.0	22.8	38.8	39.1	39.3
114	Dharwad	Navalgund	Navalgund(Morab)_1	22.7	23.5	24.9	40.2	40.7	41.5
5621	Gadag	Gadag	Betageri	23.4	23.8	25.1	38.5	38.9	39.6
5512	Gadag	Gadag	Hulikoti	23.0	23.7	24.0	38.0	38.5	39.0
5622	Gadag	Gajendragad	Nargil	23.9	24.4	25.3	39.3	39.9	40.2

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5619	Gadag	Laxmeshwar	Lakshmeshwar	23.0	23.6	23.9	37.3	37.8	38.4
5620	Gadag	Mundargi	Dambal	24.1	24.4	24.8	38.6	39.1	39.9
5509	Gadag	Mundargi	Mundargi	24.3	24.8	25.5	38.1	38.9	39.3
5618	Gadag	Naragund	Konnur	23.3	24.0	24.4	38.6	39.4	40.2
5511	Gadag	Naragund	Naragund	24.1	24.6	25.2	38.9	39.3	40.0
5623	Gadag	Ron	Hole Alur	24.0	24.8	25.5	39.3	39.8	40.2
5510	Gadag	Ron	Ron	23.4	24.4	25.1	39.0	39.5	40.1
5508	Gadag	Shirahatti	Shirahatti	23.8	24.1	24.9	38.1	39.1	39.3
441	Hassan	Alur	Alur_1	20.0	20.4	20.8	35.3	35.7	36.5
3675	Hassan	Alur	Kenchamman Hoskote	19.9	20.3	20.9	35.0	35.1	35.7
3630	Hassan	Alur	Kundur	20.0	20.5	20.8	36.1	36.5	36.8
3643	Hassan	Alur	Palya	19.8	20.4	20.8	35.7	36.0	36.3
228	Hassan	Arasikere	Arasikere_1	21.4	21.9	22.6	36.4	37.0	37.2
3591	Hassan	Arasikere	Banavara	21.7	22.2	22.5	37.4	37.8	38.2
3599	Hassan	Arasikere	Gandasi	20.7	21.1	21.5	35.2	35.5	36.0
3600	Hassan	Arasikere	Javagal	21.4	21.8	22.1	37.0	37.3	37.6
3593	Hassan	Arasikere	Kanakatte	22.6	22.8	23.1	36.7	37.1	37.7
3660	Hassan	Arkalgud	Doddamagge	21.6	22.0	22.3	36.2	36.5	36.9
3659	Hassan	Arkalgud	Konanuru	20.8	21.3	21.9	36.9	37.7	38.0
3641	Hassan	Arkalgud	Mallipatna	21.1	22.0	22.8	35.8	36.6	38.2
3642	Hassan	Arkalgud	Ramanathapura	21.0	21.6	22.0	37.1	37.7	38.0
3635	Hassan	Belur	Arehalli	20.3	21.5	22.9	36.5	37.5	38.6
3689	Hassan	Belur	Bikkodu	20.1	20.4	20.9	36.4	37.2	37.7
3647	Hassan	Belur	Halebeedu	21.0	21.7	22.1	36.2	36.5	36.8
3590	Hassan	Belur	Madihalli	20.8	21.4	22.0	36.0	36.4	37.0
3637	Hassan	Channarayapatna	Baguru	20.0	20.4	21.5	35.8	36.2	36.7
3656	Hassan	Channarayapatna	Channarayapatna	20.6	21.0	21.6	36.9	37.5	37.9
3602	Hassan	Channarayapatna	Dandiganahalli	20.0	20.3	21.1	36.8	37.1	37.4
3631	Hassan	Channarayapatna	Hirisave	21.0	21.4	23.0	36.3	36.9	37.8
3644	Hassan	Channarayapatna	Nuggehalli	20.4	21.1	21.6	36.3	36.8	37.2
3594	Hassan	Hassan	Dudda	19.8	20.5	20.8	35.2	35.6	36.0
3596	Hassan	Hassan	Hassan	20.3	20.5	20.9	35.8	36.3	36.9
10181	Hassan	Hassan	Karekere	20.3	20.5	20.8	36.1	36.3	36.6
3636	Hassan	Hassan	Kattya	20.9	21.5	22.0	35.9	36.2	36.5
3605	Hassan	Hassan	Salagame	21.2	21.9	22.5	36.5	37.1	37.3
3595	Hassan	Hassan	Shantigrama	20.1	20.6	21.0	35.6	35.8	36.5
3646	Hassan	Holenarasipura	Halekote	20.3	21.0	21.7	36.3	36.5	36.9
3698	Hassan	Holenarasipura	Halli Mysore	20.4	20.9	21.4	36.2	36.9	37.3
3676	Hassan	Sakaleshpura	Balegodu	19.6	20.4	20.8	35.3	35.7	36.2
3705	Hassan	Sakaleshpura	Hanbalu	19.6	20.3	20.5	34.8	35.4	35.7
3628	Hassan	Sakaleshpura	Hettur	19.7	20.3	20.9	35.7	36.4	36.9
3651	Hassan	Sakaleshpura	Sakaleshpur	22.1	22.9	23.5	37.8	38.4	39.3
3652	Hassan	Sakaleshpura	Yaslur	19.9	20.5	20.9	35.0	35.3	35.7
5507	Haveri	Byadgi	Byadgi	23.8	24.4	24.9	37.6	38.0	38.6
3511	Haveri	Byadgi	Kaginelli	22.8	23.4	24.6	38.0	38.4	39.5
3506	Haveri	Hanagal	Akki Alur	23.0	23.8	24.1	38.2	38.8	39.8
3505	Haveri	Hanagal	Bommanhalli	22.3	22.7	23.7	39.2	39.6	40.2
5504	Haveri	Hanagal	Hangal	23.0	23.9	24.3	38.0	38.3	39.1
5501	Haveri	Haveri	Devihosur	23.4	24.0	24.9	38.0	38.5	39.4
3501	Haveri	Haveri	Guttal	23.0	23.5	23.9	38.8	39.1	39.5
3508	Haveri	Haveri	Haveri	23.2	23.8	25.0	38.4	39.3	39.9
3509	Haveri	Hirekerur	Haunsbhavi	23.3	23.9	24.4	37.6	38.1	38.5

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5505	Haveri	Hirekerur	Hirekerur	22.9	23.3	24.1	37.0	37.4	38.0
3510	Haveri	Ranebennur	Kuppelur	24.0	24.7	25.2	38.0	38.8	39.4
3512	Haveri	Ranebennur	Medleri	23.2	24.1	24.9	37.9	38.4	38.7
5506	Haveri	Ranebennur	Ranebennur	24.0	24.7	25.2	37.5	38.1	38.5
3507	Haveri	Ratteehalli	Rattihalli	22.8	23.2	24.1	38.8	39.4	40.0
3502	Haveri	Savanur	Hatti Mattur	23.0	23.3	24.2	38.2	38.8	39.5
5503	Haveri	Savanur	Savanur	23.1	23.4	24.1	38.3	39.1	39.5
3513	Haveri	Shiggaon	Bankapur	22.6	23.2	24.1	38.5	39.0	39.4
3504	Haveri	Shiggaon	Huluguru	22.4	22.9	23.3	38.2	38.7	39.1
5502	Haveri	Shiggaon	Shiggaon	22.8	23.5	24.4	38.3	38.8	39.1
175	Kalaburagi	Afzalpur	Afzalpur_1	24.1	24.9	25.3	40.2	40.9	41.6
5528	Kalaburagi	Afzalpur	Atanur	24.9	25.7	26.4	41.2	41.8	42.1
5529	Kalaburagi	Afzalpur	Karajgi	25.4	25.9	26.6	41.2	42.1	42.7
8011	Kalaburagi	Aland	Aland	23.9	24.9	26.2	40.5	40.9	41.4
5526	Kalaburagi	Aland	Khajuri	24.7	25.1	26.1	40.3	40.9	41.7
5530	Kalaburagi	Aland	Madana Hipparga	24.7	25.5	26.1	40.6	41.2	42.1
5533	Kalaburagi	Aland	Narona	24.2	24.5	25.1	39.8	40.3	40.9
5531	Kalaburagi	Aland	Nimbarga Tanda	24.6	25.8	26.6	40.1	41.2	42.0
5538	Kalaburagi	Chincholi	Ainapur	24.2	24.9	25.5	40.0	40.7	41.7
109	Kalaburagi	Chincholi	Chincholi_1	23.8	24.4	25.2	40.9	41.6	42.0
5537	Kalaburagi	Chincholi	Sulepet	24.8	25.9	26.4	40.7	41.5	41.9
8013	Kalaburagi	Chittapur	Chittapur_1	25.1	26.0	26.5	40.0	40.8	41.6
5541	Kalaburagi	Chittapur	Gundgurti	26.0	26.7	27.7	41.1	41.5	41.8
5536	Kalaburagi	Chittapur	Nalavara	25.6	26.0	27.3	40.3	40.8	41.5
5544	Kalaburagi	Jevargi	Andola	25.3	26.4	27.3	40.8	41.5	42.1
8010	Kalaburagi	Jevargi	Jewargi	25.0	26.1	26.9	40.8	41.4	42.0
5542	Kalaburagi	Jevargi	Nelogi	24.5	25.5	26.5	40.5	41.4	42.0
5539	Kalaburagi	Kalaburagi	Aurad	24.8	25.7	26.6	41.2	41.5	42.1
5521	Kalaburagi	Kalaburagi	Farhatabad	24.7	25.5	26.2	40.2	40.8	41.7
423	Kalaburagi	Kalaburagi	Gulbarga	23.7	24.3	25.0	40.2	40.8	41.6
5532	Kalaburagi	Kalaburagi	Pattan	25.4	26.5	26.9	39.9	40.5	41.1
5527	Kalaburagi	Kalagi	Kalgi	24.2	25.0	25.8	40.1	40.9	41.3
5534	Kalaburagi	Kalagi	Kodli	25.3	25.8	26.7	41.2	41.8	42.1
5540	Kalaburagi	Kamalapura	Kamlapur	23.7	24.6	25.2	40.2	41.0	41.3
8012	Kalaburagi	Kamalapura	Mahagaon Tanda	24.4	25.2	26.2	41.0	41.5	42.0
5523	Kalaburagi	Sedam	Adki	26.0	26.6	27.2	40.4	41.2	41.9
5524	Kalaburagi	Sedam	Kanagadda	26.0	26.6	27.4	40.7	41.4	42.1
5525	Kalaburagi	Sedam	Kodla	25.3	26.1	27.1	39.5	40.8	41.5
401	Kalaburagi	Sedam	Sedam_1	24.5	25.4	26.0	40.6	41.2	41.6
5535	Kalaburagi	Shahbadha	Shahabad	26.3	27.1	27.9	41.2	41.8	42.4
5522	Kalaburagi	Yadrami	Ijeri	25.4	26.3	27.3	41.1	41.6	42.1
5543	Kalaburagi	Yadrami	Yedrami	25.9	26.4	27.0	40.7	41.2	41.5
1043	Kodagu	Kushalnagar	Harangi	19.8	20.3	20.8	35.6	36.2	36.4
3532	Kodagu	Kushalnagar	Kushalnagar	19.9	20.5	20.8	36.2	36.8	37.8
3530	Kodagu	Kushalnagar	Suntikoppa	19.1	19.4	19.8	35.8	36.3	37.0
3537	Kodagu	Madikeri	Bhagamandala	19.6	20.4	20.8	33.4	33.9	34.4
583	Kodagu	Madikeri	Madikeri_1	19.2	19.5	19.8	33.1	33.9	34.7
3527	Kodagu	Madikeri	Napoklu	19.4	20.0	20.5	35.0	35.6	36.2
3529	Kodagu	Madikeri	Sampaje	20.7	22.2	22.9	35.4	37.6	38.8
3569	Kodagu	Ponnampet	Blale	20.3	20.6	21.1	36.2	37.0	37.5
3586	Kodagu	Ponnampet	Hudakere	20.0	20.5	20.9	37.5	38.2	38.9
3558	Kodagu	Ponnampet	Ponnampet	20.0	20.5	20.9	36.7	37.5	37.8

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3528	Kodagu	Ponnampet	Srimangala	19.8	20.3	20.6	35.6	36.2	36.7
3580	Kodagu	Somwarpet	Kodlipet	20.0	20.5	20.9	34.8	35.2	35.6
3534	Kodagu	Somwarpet	Sanivarsante	20.5	21.1	22.4	35.3	35.7	36.3
3566	Kodagu	Somwarpet	Santhahalli	19.1	19.3	19.7	33.8	34.3	35.3
3771	Kodagu	Somwarpet	Somwarpet	19.0	19.1	19.5	33.6	34.0	34.3
3533	Kodagu	Virajpet	Ammati	19.8	20.3	20.9	35.0	35.8	37.1
433	Kodagu	Virajpet	Virajpet_1	20.5	21.0	21.6	36.4	36.8	38.2
3669	Kolar	Bangarapet	Bangarapet	21.5	22.4	23.4	37.4	38.0	38.5
3688	Kolar	Bangarapet	Budikote	21.2	22.4	22.9	38.0	38.8	39.3
3733	Kolar	Bangarapet	Kamsandra	21.1	22.2	22.9	37.5	38.3	39.0
3750	Kolar	Kgf	Betmangala	21.2	21.6	22.0	36.2	36.9	37.9
3702	Kolar	Kgf	Kyasamballi	21.1	21.6	22.1	37.5	38.2	39.5
3668	Kolar	Kgf	Robertsonpet	21.1	21.6	22.0	36.5	37.4	37.9
3686	Kolar	Kolar	Huttur	21.5	22.2	22.6	36.4	37.1	37.4
3713	Kolar	Kolar	Kolar	22.1	23.3	23.5	37.6	38.6	38.8
3716	Kolar	Kolar	Narasapura	21.5	22.2	22.5	37.6	38.6	39.2
3690	Kolar	Kolar	Rajakallahalli Vemagal	21.2	21.7	21.9	35.2	35.7	36.2
3658	Kolar	Kolar	Sugaturu	21.2	21.9	23.3	36.4	37.5	37.8
3692	Kolar	Kolar	Vakkaleri	21.3	22.0	22.5	36.9	37.5	37.6
3708	Kolar	Malur	Lakkur	21.5	22.9	23.6	37.0	37.4	37.6
3710	Kolar	Malur	Malur	22.0	22.8	23.0	36.4	36.9	37.3
3714	Kolar	Malur	Masathi	22.7	23.6	24.3	38.4	38.9	39.3
3693	Kolar	Malur	Tyakal	22.2	23.1	23.7	37.4	37.9	38.3
3726	Kolar	Mulabagilu	Avani	21.2	22.1	22.5	36.9	37.4	38.3
3729	Kolar	Mulabagilu	Bairakur	21.4	21.8	22.5	36.3	36.7	37.5
3727	Kolar	Mulabagilu	Duggasandra	20.9	21.5	22.2	36.0	36.7	37.5
3740	Kolar	Mulabagilu	Mulbagal	20.8	21.5	22.3	35.6	36.1	36.8
3738	Kolar	Mulabagilu	Tayilur	21.0	21.5	22.0	36.2	36.9	37.9
3720	Kolar	Srinivasapura	Nelavanki	22.3	22.9	23.6	37.0	37.6	38.0
3737	Kolar	Srinivasapura	Rayalpadu	22.4	22.7	23.2	37.1	37.5	37.7
3736	Kolar	Srinivasapura	Ronuru	21.5	22.3	22.7	36.6	37.4	38.2
3734	Kolar	Srinivasapura	Srinivasapura	21.4	22.4	23.3	37.1	37.8	38.6
3715	Kolar	Srinivasapura	Yelldur	22.4	23.0	23.5	37.2	38.0	39.2
7513	Koppala	Gangavathi	Gangavathi	25.0	25.5	27.5	40.2	41.3	41.9
7517	Koppala	Gangavathi	Marali	23.8	24.4	25.3	39.8	40.4	41.4
7520	Koppala	Gangavathi	Venkatagiri	25.2	25.8	26.4	38.7	39.2	39.4
7515	Koppala	Kanakagiri	Kanakgeri	24.6	25.2	26.0	39.5	39.9	40.7
7518	Koppala	Kanakagiri	Nauli	25.2	25.7	26.2	39.7	40.1	40.7
7516	Koppala	Karatagi	Karatgi	24.9	25.6	26.2	40.1	40.6	40.9
7519	Koppala	Karatagi	Siddapur	24.3	25.5	26.5	40.2	40.8	42.1
7501	Koppala	Koppala	Alawandi	23.8	24.5	25.0	39.4	39.8	40.4
7503	Koppala	Koppala	Erakalgud	24.5	24.9	25.3	39.3	39.7	40.3
7502	Koppala	Koppala	Hitnal	24.4	24.8	25.2	38.6	39.0	39.7
7504	Koppala	Koppala	Koppal	24.8	25.3	25.5	39.5	39.8	40.2
7510	Koppala	Kukanuru	Kuknur	24.7	25.1	25.6	39.0	39.6	40.2
7511	Koppala	Kukanuru	Manglur	24.2	25.1	26.3	39.5	39.9	40.4
7505	Koppala	Kushtagi	Hanamsagar	23.4	24.4	25.0	38.8	39.1	39.3
7506	Koppala	Kushtagi	Hanumanhal	24.2	24.9	25.8	40.0	40.2	40.6
7507	Koppala	Kushtagi	Kushtagi	24.4	25.3	25.8	38.6	39.1	39.3
7508	Koppala	Kushtagi	Tavaragera	24.8	25.2	25.7	38.7	39.3	39.5
7509	Koppala	Yelburga	Hire Wankalkunti	24.2	25.2	25.6	38.6	39.0	39.3
7512	Koppala	Yelburga	Yelburga	24.9	25.5	26.2	39.6	40.0	40.5

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7577	Mandya	Krishnarajapet	Akkihebalu	21.3	22.1	22.5	36.5	36.8	37.5
7584	Mandya	Krishnarajapet	Bukanakere	21.7	22.0	22.7	36.3	36.6	37.3
7590	Mandya	Krishnarajapet	Kikkeri	21.6	22.2	22.5	37.1	37.6	38.0
7594	Mandya	Krishnarajapet	Krishnarajapet	22.0	22.4	22.7	36.7	37.1	37.6
7601	Mandya	Krishnarajapet	Santebachahalli	21.5	21.7	22.1	35.6	36.0	36.3
7602	Mandya	Krishnarajapet	Silanare	21.6	22.0	22.2	35.9	36.3	36.9
7579	Mandya	Maddur	Autaguru (Kesturu)	22.3	22.9	23.4	38.0	38.4	39.1
7592	Mandya	Maddur	Chikkaarasinakere(Barathi Nagar	22.9	23.3	23.8	38.2	38.9	39.3
7595	Mandya	Maddur	Gejjalagere	22.8	23.4	24.1	38.6	39.1	39.4
7593	Mandya	Maddur	Koppa	22.3	22.9	23.2	37.9	38.4	39.0
7578	Mandya	Malavalli	Halaguru	23.6	24.8	25.3	38.4	38.8	39.1
7591	Mandya	Malavalli	Ragibommanahalli	22.9	23.4	25.1	38.0	38.4	39.2
7583	Mandya	Malavalli	Saragur	23.8	24.4	25.3	38.7	39.0	39.4
7589	Mandya	Mandya	Alaerke	22.9	23.0	23.7	37.5	38.1	38.5
7580	Mandya	Mandya	Basaralu	23.0	23.4	23.6	37.2	38.0	38.4
7587	Mandya	Mandya	Chandagalu (Near Dudda)	22.4	22.8	23.5	37.3	37.8	38.3
7597	Mandya	Mandya	Mandya	23.6	24.3	25.1	37.3	38.0	39.1
7581	Mandya	Nagamangala	Belluru	21.8	22.1	22.5	36.4	37.0	37.3
7582	Mandya	Nagamangala	Bendaganavele	21.5	22.1	22.7	36.0	36.4	37.4
7586	Mandya	Nagamangala	Devalapura	21.9	22.5	23.2	37.4	37.9	38.3
7588	Mandya	Nagamangala	Honakere	22.6	23.0	23.2	36.6	37.2	37.6
2017	Mandya	Nagamangala	Nagamangala	21.7	22.1	22.9	37.7	38.1	38.7
7585	Mandya	Pandavapura	Chinkurali	21.3	21.9	22.3	36.2	36.6	37.1
7598	Mandya	Pandavapura	Melukote	22.3	23.0	23.5	36.2	36.5	36.6
7596	Mandya	Srirangapatna	Arakere	22.8	23.2	23.8	37.1	38.0	38.3
7599	Mandya	Srirangapatna	Belagola	22.4	22.7	23.5	38.0	38.4	38.8
7600	Mandya	Srirangapatna	K. Setty Halli	22.5	22.9	23.6	37.0	37.6	38.6
7603	Mandya	Srirangapatna	Srirangapatna	22.5	22.8	23.2	37.3	38.2	39.0
3768	Mysuru	Heggadadevanakote	Antarasante	21.5	22.3	22.6	36.2	36.5	36.9
7620	Mysuru	Heggadadevanakote	Hampapura	23.0	23.3	23.7	37.8	38.4	38.8
7621	Mysuru	Heggadadevanakote	Heggadadevanakote	22.6	23.1	23.4	36.6	36.9	37.1
7607	Mysuru	Hunsur	Bilikere	21.9	22.3	22.8	36.2	36.8	37.2
7608	Mysuru	Hunsur	Gowdargyare	21.7	22.1	22.7	37.4	37.6	38.0
7609	Mysuru	Hunsur	Hanagoadu	21.6	22.4	22.7	37.6	38.1	38.7
7614	Mysuru	Krishnarajanagar	Hebbalu	21.5	21.9	22.3	35.9	36.4	36.8
739	Mysuru	Krishnarajanagar	Krishnarajanagar_1	21.6	21.9	22.3	36.4	36.8	36.9
3769	Mysuru	Mysuru	Elivala	21.4	21.7	22.4	37.5	37.7	38.1
7606	Mysuru	Mysuru	Jayapura	22.9	23.4	23.8	37.1	37.5	37.8
3770	Mysuru	Mysuru	Mysore	21.8	21.8	22.5	36.8	37.2	37.4
7605	Mysuru	Mysuru	Varuna	23.9	24.3	24.6	37.6	38.0	38.1
7623	Mysuru	Nanjanagud	Bilikare	23.0	23.5	24.0	37.6	37.8	38.1
7624	Mysuru	Nanjanagud	Chikkayyana Chattra	23.1	23.5	23.8	37.9	38.2	38.4
7625	Mysuru	Nanjanagud	Doddakowlande	22.2	22.7	23.2	37.1	37.4	37.7
7626	Mysuru	Nanjanagud	Hullahalli	22.9	23.2	23.5	37.2	37.5	37.7
7612	Mysuru	Periyapatna	Bettadpur	21.0	21.2	21.6	37.1	37.8	38.0
7613	Mysuru	Periyapatna	Haranahalli	20.7	21.2	21.5	36.9	37.3	37.9
7611	Mysuru	Periyapatna	Ravanduru	21.6	22.1	22.5	36.8	37.2	37.7
7615	Mysuru	Saligrama	Chanachanakatte	21.8	22.1	22.5	36.9	37.5	37.8
7616	Mysuru	Saligrama	Mirale	21.6	21.9	22.3	36.8	37.2	37.6
7618	Mysuru	Saligrama	Saligram	21.6	22.2	22.6	37.2	37.6	38.0
7622	Mysuru	Saraguru	B.Matakere	22.2	22.6	23.3	36.7	37.1	37.7
7628	Mysuru	T.Narasipura	Bannur	23.1	23.4	23.9	38.4	38.9	39.5

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7629	Mysuru	T.Narasipura	Muguru	23.0	23.2	24.0	37.5	38.1	38.3
7631	Mysuru	T.Narasipura	T. Narasipur	23.3	23.5	24.3	38.1	38.3	38.8
7632	Mysuru	T.Narasipura	Talakad	22.6	23.4	23.9	37.9	38.1	38.9
5562	Raichur	Deodurga	Arakeri	26.2	26.9	27.2	39.3	40.1	40.8
8015	Raichur	Deodurga	Devadurga_1	25.5	26.1	26.9	40.3	41.2	41.6
5563	Raichur	Deodurga	Gabbur	25.5	26.5	26.8	40.1	40.7	41.6
5561	Raichur	Deodurga	Jalihalli	25.5	26.0	26.9	39.5	40.2	41.0
5560	Raichur	Lingsugur	Gurgunta	25.6	26.1	26.8	39.7	40.4	41.9
8014	Raichur	Lingsugur	Lingsugur	24.7	25.1	25.7	39.0	39.6	40.1
5567	Raichur	Lingsugur	Mudgal	25.2	25.7	26.5	39.4	40.2	40.9
5575	Raichur	Manvi	Hire Katankal	24.3	25.2	25.8	39.1	39.9	40.7
5577	Raichur	Manvi	Kurdi	26.0	26.6	27.3	40.6	40.8	41.6
5576	Raichur	Manvi	Manvi	26.4	26.9	27.5	40.3	40.9	41.3
5582	Raichur	Maski	Balganur	24.4	25.1	26.0	40.0	40.5	40.7
5586	Raichur	Maski	Gudadur	24.6	25.3	26.0	39.1	40.3	40.5
5589	Raichur	Maski	Halapur	24.6	25.2	26.0	40.0	40.5	40.8
5583	Raichur	Maski	Maski	24.7	25.3	26.0	39.3	40.3	40.6
5587	Raichur	Maski	Pamankallur	24.9	25.8	26.2	39.7	40.8	41.5
5579	Raichur	Raichur	Chandrabanda	25.8	26.4	27.3	40.2	41.2	42.1
5578	Raichur	Raichur	Devarsugur	25.4	26.3	27.0	40.3	40.8	41.7
5581	Raichur	Raichur	Gilasuguru	25.3	25.8	26.9	40.3	41.3	41.6
5564	Raichur	Raichur	Kalmali	26.1	26.4	26.7	40.4	41.0	41.7
387	Raichur	Raichur	Raichur_1	25.4	26.0	26.2	40.2	40.6	41.7
5580	Raichur	Raichur	Yergara	25.3	25.7	26.9	40.3	41.3	41.6
5584	Raichur	Sindhanur	Badarli	24.2	24.6	25.4	39.8	41.1	41.6
5570	Raichur	Sindhanur	Gorebal	23.6	24.3	25.6	40.0	40.3	40.6
5569	Raichur	Sindhanur	Gunjihalli	23.8	24.6	25.2	39.6	40.2	40.7
5573	Raichur	Sindhanur	Hadganhal	24.3	24.9	25.4	40.0	41.1	41.5
5571	Raichur	Sindhanur	Huda	24.4	24.9	25.5	39.2	39.8	41.0
5590	Raichur	Sindhanur	Jalihahal	24.7	25.2	26.5	40.3	40.6	41.0
5591	Raichur	Sindhanur	Jawalgeri	24.5	25.2	26.3	40.3	40.8	41.0
5585	Raichur	Sindhanur	Kunatgi	23.1	24.0	25.1	39.7	40.3	41.0
5572	Raichur	Sindhanur	Salgundi	24.1	24.7	25.5	39.8	40.5	41.1
519	Raichur	Sindhanur	Sindhanur_1	23.1	24.1	24.9	40.5	41.3	41.6
5568	Raichur	Sindhanur	Turvihal	24.5	25.5	26.1	39.8	40.3	41.1
5574	Raichur	Sindhanur	Walkamdinni	24.5	25.2	25.9	40.2	40.8	41.1
5559	Raichur	Sirivara	Kallur	26.1	26.3	26.9	40.7	41.2	42.2
5566	Raichur	Sirivara	Kavital	25.8	26.5	27.0	40.3	41.0	41.5
5588	Raichur	Sirivara	Mallat	25.3	26.1	26.9	40.4	40.8	41.4
5565	Raichur	Sirivara	Sirvar	25.0	25.3	25.8	40.0	40.4	41.2
3606	Shivamogga	Bhadravathi	Bhadravathi	21.9	22.6	23.1	37.3	37.8	38.3
3581	Shivamogga	Bhadravathi	Holehonnuru (1)	22.4	23.0	23.6	38.9	39.4	40.0
3540	Shivamogga	Bhadravathi	Holehonnuru (3)	21.9	22.4	22.9	38.3	38.8	39.3
3571	Shivamogga	Bhadravathi	Holehonuru (2)	22.6	23.2	23.9	38.3	39.1	40.1
3611	Shivamogga	Bhadravathi	Kudaligere	22.3	22.8	23.2	37.6	38.2	38.6
471	Shivamogga	Hosanagara	Hosanagar_1	21.8	22.2	23.0	37.0	37.6	38.2
3615	Shivamogga	Hosanagara	Huncha	21.2	21.6	21.8	36.9	37.4	37.9
3577	Shivamogga	Hosanagara	Kerehalli	21.4	21.7	22.2	37.8	38.3	38.6
3753	Shivamogga	Hosanagara	Nagar	21.6	22.2	23.0	36.6	37.4	37.9
3610	Shivamogga	Sagara	Anandapuram	21.5	22.3	22.8	37.6	38.3	38.7
3573	Shivamogga	Sagara	Avinahalli	21.6	22.1	22.4	37.4	37.6	38.2
3622	Shivamogga	Sagara	Baragadde (Barangi)	21.5	22.2	23.4	36.4	36.9	37.6

Karnataka State Heat Action Plan 2026 | Annexure 20 – KSNDMC Station-Derived Percentile Thresholds for Heat Event Identification for March

STATION CODE	DISTRICT	TALUK	HOBLI	T_{min}' P_{90}	T_{min}' P_{95}	T_{min}' P_{98}	T_{max}' P_{90}	T_{max}' P_{95}	T_{max}' P_{98}
3576	Shivamogga	Sagara	Karauru	21.6	22.3	23.7	36.9	37.5	37.9
477	Shivamogga	Sagara	Sagar_1	21.7	22.2	23.0	37.4	37.5	37.8
3607	Shivamogga	Sagara	Talguppa	21.7	22.4	23.4	37.0	37.4	38.0
3612	Shivamogga	Shikaripura	Anjanapura	21.6	22.5	23.0	38.2	38.8	39.0
3617	Shivamogga	Shikaripura	Husuru	22.6	23.2	23.8	38.2	38.8	38.9
3608	Shivamogga	Shikaripura	Thogarasi	21.5	22.2	22.9	37.7	38.2	38.4
3582	Shivamogga	Shikaripura	Udagani (Shiral Koppa)	22.3	23.0	23.6	37.6	38.2	38.4
3567	Shivamogga	Shivamogga	Harannahalli	22.8	23.3	23.6	39.3	39.7	40.2
3570	Shivamogga	Shivamogga	Holalur (1)	22.0	22.6	23.1	38.2	38.5	39.3
3574	Shivamogga	Shivamogga	Holalur (2)	22.7	23.1	23.6	38.9	39.4	40.0
3585	Shivamogga	Shivamogga	Kumsi	22.5	23.0	23.6	39.2	39.6	40.0
3579	Shivamogga	Shivamogga	Nidige_1_Umbalabailu	21.8	22.4	22.9	38.1	38.7	38.9
3618	Shivamogga	Shivamogga	Nidige_2	22.6	23.1	23.4	38.7	38.9	39.2
630	Shivamogga	Shivamogga	Shimoga_1	22.9	23.3	23.4	38.6	38.8	39.2
3620	Shivamogga	Soraba	Anavatti	22.2	22.8	23.5	38.7	39.2	39.5
3575	Shivamogga	Soraba	Chandragutti	22.2	22.5	22.9	37.0	37.4	37.7
3623	Shivamogga	Soraba	Jade	23.0	23.6	24.8	39.0	39.4	39.9
3624	Shivamogga	Soraba	Kuppagadde	21.8	22.6	23.4	37.4	37.9	38.4
3621	Shivamogga	Soraba	Sorab	22.2	22.4	22.9	37.4	37.8	38.0
3583	Shivamogga	Tirthahalli	Agrahara	21.3	21.6	21.8	36.9	37.3	37.7
3772	Shivamogga	Tirthahalli	Agumbe	22.8	22.9	23.3	35.7	36.2	37.0
3568	Shivamogga	Tirthahalli	Malur	22.0	22.4	23.1	37.5	38.0	38.7
3609	Shivamogga	Tirthahalli	Mandagadde	20.7	21.7	21.9	38.3	38.7	39.3
7673	Tumakuru	Chikkanayakanahalli	Handanakere	22.0	22.8	23.1	37.2	37.7	38.2
7674	Tumakuru	Chikkanayakanahalli	Huliyar	23.0	23.3	23.9	37.5	37.8	38.2
7675	Tumakuru	Chikkanayakanahalli	Kandikere	23.0	23.4	23.9	37.6	38.1	38.4
7676	Tumakuru	Chikkanayakanahalli	Shettikeri	21.6	22.4	22.7	37.9	38.4	38.8
7672	Tumakuru	Gubbi	Chelur	22.4	22.9	23.5	37.6	37.8	38.4
549	Tumakuru	Gubbi	Gubbi_1	21.3	21.8	22.1	37.7	38.4	39.1
7669	Tumakuru	Gubbi	Kadaba	22.2	23.0	23.4	37.5	38.0	38.4
7670	Tumakuru	Gubbi	Nittur	21.2	21.9	22.3	37.3	37.7	38.2
7651	Tumakuru	Koratagere	Bukkapatna	23.6	23.8	24.2	39.2	39.6	40.3
7657	Tumakuru	Koratagere	Chennarayadurga	22.0	22.5	22.9	36.5	37.2	37.8
7659	Tumakuru	Koratagere	Holanahalli	23.5	24.1	24.5	37.8	38.5	38.8
7658	Tumakuru	Koratagere	Kolala	22.2	22.6	23.1	36.4	36.9	37.3
7650	Tumakuru	Kunigal	Amrutur	22.2	22.6	23.6	37.1	37.4	37.9
7666	Tumakuru	Kunigal	Huliyurudurga	23.2	23.6	24.2	37.7	38.5	38.8
7668	Tumakuru	Kunigal	Huttariduraga	22.4	23.0	23.6	37.5	38.0	38.3
7667	Tumakuru	Kunigal	Kottagere	21.4	22.0	22.5	37.4	37.8	38.0
7689	Tumakuru	Kunigal	Yedeyur	21.8	22.6	23.0	37.3	37.9	38.6
7681	Tumakuru	Madhugiri	Dodderi	23.4	24.3	24.8	37.8	38.4	38.8
7677	Tumakuru	Madhugiri	Itakadibbanahalli	24.1	24.7	25.0	39.1	39.4	40.1
7678	Tumakuru	Madhugiri	Kodigenahalli	24.5	24.8	25.7	37.8	38.1	38.9
3746	Tumakuru	Madhugiri	Madhugiri	23.2	23.8	24.3	37.5	37.7	38.0
7679	Tumakuru	Madhugiri	Midigesi	25.0	25.2	25.8	38.4	38.8	39.4
7680	Tumakuru	Madhugiri	Puravara	23.6	24.6	25.0	37.9	38.3	38.8
7655	Tumakuru	Pavagada	Nagalamadike	24.7	25.1	26.0	39.5	39.8	40.4
7688	Tumakuru	Pavagada	Yellappanayakana Hosakote	24.9	25.6	26.5	39.5	39.7	40.1
7652	Tumakuru	Sira	Hulikunta	23.9	24.5	25.2	39.0	39.4	40.2
7653	Tumakuru	Sira	Kallambella	23.0	23.4	23.8	38.3	39.2	39.7
7660	Tumakuru	Tiptur	Honnnavalli	21.5	22.0	22.4	35.8	36.1	36.2
7662	Tumakuru	Tiptur	Kibbanahalli	21.6	21.9	22.3	36.0	36.6	37.1

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STATION CODE	DISTRICT	TALUK	HOBLI	T_{min}' P_{90}	T_{min}' P_{95}	T_{min}' P_{98}	T_{max}' P_{90}	T_{max}' P_{95}	T_{max}' P_{98}
7661	Tumakuru	Tiptur	Nonavinakere	21.7	22.3	23.2	38.0	38.6	39.0
544	Tumakuru	Tiptur	Tiptur_1	20.7	21.0	21.5	35.4	35.8	36.0
7684	Tumakuru	Tumakuru	Bellavi	21.3	22.0	22.9	36.9	37.3	37.7
7687	Tumakuru	Tumakuru	Guluru	22.4	22.9	23.2	37.6	37.8	38.3
7683	Tumakuru	Tumakuru	Hebbur	21.7	22.1	22.5	37.1	37.4	37.7
7685	Tumakuru	Tumakuru	Kora	22.1	22.7	23.5	36.5	37.2	37.5
7686	Tumakuru	Tumakuru	Tumkur	24.0	25.0	25.5	37.7	38.3	38.9
7682	Tumakuru	Tumakuru	Uradigere	22.0	22.4	22.5	35.8	36.3	36.7
7665	Tumakuru	Turuvekere	Dabbegatta	21.6	21.8	22.2	37.0	37.5	38.2
7664	Tumakuru	Turuvekere	Dandinasivara	21.7	22.2	23.0	36.2	36.5	36.9
7663	Tumakuru	Turuvekere	Mayasandra	22.1	22.4	23.0	37.6	38.2	38.6
3730	Udupi	Bramhavara	Kota	25.4	25.6	26.1	35.7	36.2	36.3
3683	Udupi	Bynduru	Baindanuru	25.6	26.1	26.7	35.4	35.7	36.4
3519	Udupi	Kapu	Kapu	24.9	25.3	25.7	35.0	35.5	35.7
3526	Udupi	Karkala	Ajekar	24.4	24.7	25.0	38.3	38.9	38.9
663	Udupi	Karkala	Karkala_1	24.6	24.8	25.2	37.8	38.3	38.9
124	Udupi	Kundapur	Kundapur_1	25.5	26.0	26.3	35.7	36.2	36.3
3522	Udupi	Kundapur	Vandse	25.4	25.7	26.1	36.1	36.3	37.0
3521	Udupi	Udupi	Perdur	24.8	24.9	25.4	34.7	35.1	35.8
337	Udupi	Udupi	Udupi_1	25.1	25.5	25.8	35.0	35.5	36.0
3588	Uttara Kannada	Ankola	Ankola	25.0	26.1	26.8	36.2	37.0	37.3
3557	Uttara Kannada	Ankola	Basagod	25.5	26.0	26.9	35.4	36.6	37.2
3555	Uttara Kannada	Ankola	Belikere (Avarse)	24.9	25.3	26.0	36.1	36.9	37.4
3587	Uttara Kannada	Ankola	Blale	25.5	26.2	26.6	36.2	36.4	37.0
3681	Uttara Kannada	Bhatkal	Mavalli	25.7	26.1	26.5	34.8	35.6	36.8
3703	Uttara Kannada	Dandelli	Dandeli	21.7	22.1	22.9	38.5	38.9	39.4
3682	Uttara Kannada	Haliyal	Haliyal	22.1	22.4	23.2	39.2	39.4	39.8
3680	Uttara Kannada	Haliyal	Murkvad	22.6	23.4	23.9	39.6	40.1	40.7
3677	Uttara Kannada	Haliyal	Sambrani	22.1	22.8	23.4	38.6	39.0	39.5
3589	Uttara Kannada	Honnavar	Honnavar	26.2	27.0	28.0	35.8	36.3	37.0
3597	Uttara Kannada	Honnavar	Mavinakurvei	26.5	27.1	28.2	38.3	38.8	39.6
3601	Uttara Kannada	Karwar	Ghadasaya	25.2	25.8	26.1	38.1	38.8	39.2
3604	Uttara Kannada	Karwar	Kinnar	25.3	26.0	26.3	37.1	37.7	38.8
3598	Uttara Kannada	Karwar	Savantvada	26.3	26.8	28.3	37.5	38.2	38.9
3592	Uttara Kannada	Kumta	Gokarna	25.6	26.8	27.1	35.0	35.6	36.3
3667	Uttara Kannada	Kumta	Kujahalli	25.0	25.6	26.2	37.7	38.3	38.8
628	Uttara Kannada	Kumta	Kumta_1	25.5	26.1	27.0	37.4	38.2	38.7
3603	Uttara Kannada	Kumta	Mirjan	25.2	26.0	26.4	37.5	38.2	38.4
3704	Uttara Kannada	Mundgod	Pala	22.6	23.8	24.3	39.0	39.7	40.0
3666	Uttara Kannada	Siddapur	Kodkani	23.5	24.2	25.1	38.2	38.8	39.6
380	Uttara Kannada	Siddapur	Siddapur (Kondli)_1	21.7	22.4	23.4	37.3	37.9	38.7
3701	Uttara Kannada	Siddapur	Umbalamani	21.8	22.3	23.1	36.5	37.8	38.5
3657	Uttara Kannada	Sirsi	Hulekal	21.6	22.2	22.6	36.7	37.4	37.6
3697	Uttara Kannada	Sirsi	Sampakanda (Ammanahalli)	21.8	22.3	23.1	36.8	37.6	38.5
361	Uttara Kannada	Sirsi	Sirsi_1	22.5	23.7	24.1	37.8	38.8	39.5
3673	Uttara Kannada	Supa	Castle Rock	22.1	23.2	24.3	37.3	38.1	38.6
3678	Uttara Kannada	Supa	Kumbarawada	22.5	23.6	24.5	37.3	38.1	38.9
3653	Uttara Kannada	Supa	Supa	21.6	23.0	24.5	37.4	38.1	38.9
3654	Uttara Kannada	Yellapur	Manchikeri	22.8	23.5	24.3	37.6	38.1	38.7
8000	Vijayanagara	Hadagali	Hadagali	24.2	24.7	24.8	40.1	40.8	41.4
7557	Vijayanagara	Hadagali	Hirehadagalli	24.2	24.7	25.1	40.2	40.7	41.3
7558	Vijayanagara	Hadagali	Ittigi	24.1	24.5	25.0	38.9	39.3	39.5

Karnataka State Heat Action Plan 2026 | Annexure 20 – KSNDMC Station-Derived Percentile Thresholds for Heat Event Identification for March

STATION CODE	DISTRICT	TALUK	HOBLI	T_{min}' P_{90}	T_{min}' P_{95}	T_{min}' P_{98}	T_{max}' P_{90}	T_{max}' P_{95}	T_{max}' P_{98}
7553	Vijayanagara	Hagaribommanahalli	Hagaribommanahalli	23.8	24.7	25.3	40.0	40.3	42.4
7555	Vijayanagara	Hagaribommanahalli	Tambarahalli	25.2	26.2	26.9	40.7	41.4	41.8
7569	Vijayanagara	Harappanahalli	Arasikere	24.5	24.8	25.3	39.5	40.0	40.5
7570	Vijayanagara	Harappanahalli	Chigateri	24.2	24.8	25.4	39.6	40.0	40.8
7561	Vijayanagara	Harappanahalli	Telagi	24.3	25.0	25.4	39.4	39.9	40.5
615	Vijayanagara	Hosapete	Hospet_1	25.1	25.9	26.4	40.2	40.9	41.6
7545	Vijayanagara	Hosapete	Kamalapuram	25.3	25.8	26.1	39.5	40.0	40.4
7547	Vijayanagara	Hosapete	Mariyamanahalli	24.8	25.1	25.5	40.2	41.0	41.4
7554	Vijayanagara	Kotturu	Kogali	24.1	24.5	25.4	39.2	39.9	40.8
7552	Vijayanagara	Kotturu	Kotturu	24.2	24.7	25.4	39.7	40.1	40.8
7550	Vijayanagara	Kudligi	Gudekote	24.9	25.4	25.8	39.2	39.8	40.2
7551	Vijayanagara	Kudligi	Hosahalli	23.7	24.1	24.5	38.3	38.7	38.9
8002	Vijayanagara	Kudligi	Kudligi_1	23.3	24.3	24.6	39.3	39.9	40.2
8009	Vijayapura	Alamela	Almel	23.5	24.6	25.2	40.8	41.4	42.0
5615	Vijayapura	Babaleshwara	Bobleshwar	23.6	24.2	24.6	38.3	38.9	40.1
5614	Vijayapura	Babaleshwara	Mamdapur	24.2	24.9	25.3	39.5	40.3	41.4
8008	Vijayapura	Basavanabagevadi	Basavanabagevadi	23.6	24.3	25.0	39.0	39.6	40.0
5609	Vijayapura	Basavanabagevadi	Huvin Hippargi	23.5	23.9	24.8	38.2	38.8	39.5
5605	Vijayapura	Chadachana	Chadchan	24.9	26.1	26.4	39.7	40.2	40.7
5608	Vijayapura	Devara Hipparagi	Devar Hippargi	25.5	26.3	26.7	40.5	41.0	41.3
5606	Vijayapura	Indi	Ballolli	24.1	24.9	26.3	39.5	40.2	40.9
8006	Vijayapura	Indi	Indi	25.3	26.1	27.7	41.0	41.4	41.9
5613	Vijayapura	Kolhara	Kolhar	23.6	24.2	24.6	37.9	38.6	39.4
5610	Vijayapura	Muddebihal	Dhavalagi	24.1	24.9	25.5	38.5	40.1	40.8
537	Vijayapura	Muddebihal	Muddebihal_1	24.1	25.0	25.5	39.1	40.1	40.9
5611	Vijayapura	Muddebihal	Nalatvad	25.0	25.8	27.2	39.8	40.3	41.0
5607	Vijayapura	Sindgi	Sindgi	25.5	26.2	26.7	40.0	40.7	41.5
5612	Vijayapura	Talikote	Talikota	25.1	25.7	26.5	40.2	40.9	41.5
5616	Vijayapura	Tikota	Tikota	24.8	25.0	25.6	39.1	39.6	40.1
5617	Vijayapura	Vijayapura	Nagathan	24.3	25.1	25.9	39.6	39.9	40.3
8007	Vijayapura	Vijayapura	Vijayapura	24.5	25.0	25.8	39.2	39.6	39.6
5604	Yadgir	Gurumithakala	Gurmatkal	25.2	25.9	26.3	40.1	40.6	41.3
5602	Yadgir	Gurumithakala	Konakal	25.2	26.0	26.6	40.7	41.1	41.4
5593	Yadgir	Hunisigi	Hunasagi	24.6	25.6	26.4	39.5	39.9	40.7
5594	Yadgir	Hunisigi	Kodekal	25.3	26.2	26.7	39.4	40.0	40.8
5597	Yadgir	Shahapur	Doranhalli	25.6	26.3	26.7	41.0	41.5	41.9
5598	Yadgir	Shahapur	Gogi (Gugipet)	24.0	24.9	25.6	39.7	40.3	40.6
5596	Yadgir	Shahapur	Shahapur	25.3	26.1	26.9	40.5	41.1	41.9
8018	Yadgir	Shahapur	Shahapur_1	24.1	25.1	25.6	39.7	40.5	41.5
5595	Yadgir	Shorapur	Kakkeri	25.5	26.3	27.1	39.8	40.2	41.2
5592	Yadgir	Shorapur	Kembhavi	25.6	26.2	26.4	39.4	40.3	41.1
8017	Yadgir	Shorapur	Shorapur	25.1	25.7	26.1	40.4	41.3	41.5
5599	Yadgir	Vadagera	Wadagera	25.9	26.4	27.2	40.5	40.9	41.7
5601	Yadgir	Yadgir	Balichakra	25.6	26.5	27.0	40.2	40.7	41.0
5603	Yadgir	Yadgir	Hattikuni	24.0	24.7	25.4	40.6	41.2	41.9
5600	Yadgir	Yadgir	Saidapur	25.7	26.4	27.4	40.0	40.9	41.5
8016	Yadgir	Yadgir	Yadgir	24.2	24.9	26.2	40.9	41.5	42.3

Annexure 21: KSNDMC Station-Derived Percentile Thresholds for Heat Event Identification for April

T_{max} — Daily maximum temperature. The highest temperature recorded at a station in a given day.

T_{min} — Daily minimum temperature. The lowest temperature recorded at a station in a given day.

P_{90} (90th percentile) — The value below which 90% of the observations fall. Equivalently, exceeded on 10% of days in the reference period.

P_{95} (95th percentile) — Exceeded 5% of days in the reference period.

P_{98} (98th percentile) — Exceeded 2% of days in the reference period.

Time Period – 2017-2022

STATION CODE	DISTRICT	TALUK	HOBOLI	T_{min}' P_{90}	T_{min}' P_{95}	T_{min}' P_{98}	T_{max}' P_{90}	T_{max}' P_{95}	T_{max}' P_{98}
5555	Bagalkote	Badami	Badami	25.2	25.7	26.3	39.7	40.0	41.0
5557	Bagalkote	Badami	Kerur	25.8	26.4	26.9	40.1	40.6	41.1
5556	Bagalkote	Badami	Kulgeri	24.9	25.3	25.9	40.4	41.1	42.0
5518	Bagalkote	Bagalkote	Bagalkote	26.0	26.7	27.3	40.1	40.8	41.6
5548	Bagalkote	Bagalkote	Kaladgi	24.4	25.1	25.6	40.1	40.9	41.5
5550	Bagalkote	Bagalkote	Rampura (Sitimani)	26.4	27.0	27.4	40.8	41.6	41.9
5547	Bagalkote	Bilgi	Anagvadi	25.1	25.6	26.3	40.5	41.2	41.6
5520	Bagalkote	Bilgi	Bilgi	26.5	27.0	28.3	40.6	41.2	41.7
5554	Bagalkote	Guledagudda	Guledagudda	26.8	27.2	27.6	40.6	41.3	41.6
5553	Bagalkote	Hungund	Amingarh	27.0	27.5	28.1	40.4	41.1	41.6
428	Bagalkote	Hungund	Hungund_1	25.8	26.0	26.8	40.4	40.8	41.6
5552	Bagalkote	Ilkal	Ilkal	26.0	26.4	27.0	41.5	42.3	42.9
5551	Bagalkote	Ilkal	Karadi	26.0	26.4	27.3	41.9	42.6	42.8
5519	Bagalkote	Jamkhandi	Jamkhandi	25.3	26.0	26.7	41.2	41.8	42.1
5558	Bagalkote	Jamkhandi	Savalagi	25.0	26.1	26.6	41.3	41.9	42.1
5549	Bagalkote	Mudhol	Lokapur	24.8	25.4	25.8	40.0	40.7	41.0
5546	Bagalkote	Mudhol	Mudhol	25.3	25.8	26.2	41.2	41.7	42.1
5545	Bagalkote	Rabakavi Banahatti	Terdal	24.1	24.3	24.7	40.7	41.4	41.7
8003	Ballari	Ballari	Ballari	27.5	28.2	28.6	41.8	42.7	43.8
7540	Ballari	Ballari	Moka	26.6	27.1	27.5	41.8	42.3	42.6
7537	Ballari	Ballari	Rupanagudi	27.5	28.2	28.7	42.2	43.1	43.4
7546	Ballari	Kampli	Kampli	26.7	27.1	27.6	41.7	42.0	42.4
7538	Ballari	Kurugodu	Koluru	27.7	28.4	28.8	42.3	42.9	43.8
7539	Ballari	Kurugodu	Kurugodu	27.9	28.7	29.5	42.3	42.9	43.8
7548	Ballari	Sandur	Choranuru	24.7	25.2	25.5	39.7	40.1	40.6
8001	Ballari	Sandur	Sandur	25.5	25.8	26.1	40.1	42.0	43.0
7549	Ballari	Sandur	Toranagallu	28.2	28.7	29.0	41.7	42.1	42.5
7541	Ballari	Siruguppa	Hachholli	27.0	27.6	28.2	43.2	43.6	43.9
7542	Ballari	Siruguppa	Karuru	27.5	28.1	28.3	42.0	42.4	42.9
7543	Ballari	Siruguppa	Siruguppa	27.5	27.8	28.2	42.3	42.7	43.4
7544	Ballari	Siruguppa	Tekkalakote	27.7	28.2	28.6	42.6	43.0	43.8
5642	Belagavi	Athani	Anantapur	25.0	25.4	26.0	40.1	40.8	41.2
573	Belagavi	Athani	Athani_1	25.0	25.4	26.0	40.4	41.0	41.3
5644	Belagavi	Athani	Telsang	24.9	25.4	26.2	41.0	41.6	42.0
301	Belagavi	Bailhongal	Baihongal_1	23.5	24.3	25.5	39.3	39.8	40.1

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STATION CODE	DISTRICT	TALUK	HOBLI	T_{min}' P_{90}	T_{min}' P_{95}	T_{min}' P_{98}	T_{max}' P_{90}	T_{max}' P_{95}	T_{max}' P_{98}
5633	Belagavi	Bailhongal	Nesargi	24.0	24.5	24.6	39.3	39.9	40.4
5516	Belagavi	Belagavi	Belgaum	23.0	23.7	23.9	38.5	39.0	39.5
5646	Belagavi	Belagavi	Hirebagevadi (Chandur)	23.3	23.6	24.5	39.3	39.6	40.1
5645	Belagavi	Belagavi	Kakti	22.9	23.5	23.9	38.6	39.1	39.5
5649	Belagavi	Belagavi	Uchagaon	23.1	23.6	23.8	39.8	41.3	41.9
5626	Belagavi	Chikkodi	Chikkodi	24.6	25.1	26.3	40.6	41.1	41.8
5628	Belagavi	Chikkodi	Nagaramonnali	24.0	24.6	25.0	39.8	40.7	41.2
5625	Belagavi	Chikkodi	Sadalgi	24.3	24.6	25.4	39.9	40.1	40.6
5632	Belagavi	Gokak	Gokak	25.0	25.7	26.6	40.8	41.3	41.9
5634	Belagavi	Gokak	Kowjalgi	23.8	24.3	25.2	40.0	40.6	41.0
576	Belagavi	Hukkeri	Hukkeri_1	23.3	23.9	24.7	39.7	40.3	40.8
5629	Belagavi	Hukkeri	Sankeswar	23.5	24.0	24.7	40.2	40.6	41.0
5630	Belagavi	Hukkeri	Yamkanmardi	22.7	23.2	23.6	39.1	39.7	40.8
5643	Belagavi	Kagavada	Kagwad	24.6	25.2	26.1	40.4	40.8	41.7
5647	Belagavi	Khanapur	Bidi	23.6	24.1	24.5	38.8	39.3	40.0
5648	Belagavi	Khanapur	Gunji	23.6	24.3	24.6	38.9	39.3	39.7
5650	Belagavi	Khanapur	Jamboti	23.0	23.4	23.9	38.9	39.4	39.8
303	Belagavi	Khanapur	Khanapur	22.9	23.4	23.8	39.1	39.5	39.8
5638	Belagavi	Kitthuru	Hirenadihalli	22.7	23.0	23.4	38.2	38.9	39.4
5631	Belagavi	Mudalagi	Arbhavi	24.2	24.5	26.1	40.2	40.7	41.7
5627	Belagavi	Nippani	Nipani	24.2	24.9	25.5	40.9	41.3	41.9
5624	Belagavi	Raibagh	Kudchi	24.7	25.3	26.1	41.3	41.6	42.2
318	Belagavi	Raibagh	Raibagh	23.8	24.3	24.7	40.9	41.4	42.1
5640	Belagavi	Ramadurga	Bidki (K.Chandaragi)	24.4	25.1	25.8	39.9	40.6	41.2
5639	Belagavi	Ramadurga	Katkol	25.2	25.8	26.2	40.2	40.6	40.8
5641	Belagavi	Ramadurga	Mudkavi	25.4	26.2	26.7	39.8	40.6	41.2
5517	Belagavi	Ramadurga	Ramdurg	25.5	26.2	26.7	40.1	40.3	41.2
324	Belagavi	Soundatti	Badli	24.4	24.9	25.3	40.3	40.8	41.1
5636	Belagavi	Soundatti	Manoli	24.1	24.7	25.1	40.1	40.5	41.0
5637	Belagavi	Soundatti	Muragoda	24.1	24.8	25.6	38.4	39.5	39.9
5635	Belagavi	Yaragatti	Yargatti	23.7	24.1	24.7	38.6	39.5	40.0
3561	Bengaluru Rural	Devanahalli	Channarayapatna	22.2	22.7	23.3	36.7	36.9	37.6
375	Bengaluru Rural	Devanahalli	Devanahalli_1	22.3	22.4	22.8	36.4	36.7	37.3
3523	Bengaluru Rural	Devanahalli	Kundana	22.2	22.4	22.7	36.7	36.9	37.3
3563	Bengaluru Rural	Devanahalli	Vijayapura	22.6	23.0	23.3	37.5	38.0	38.2
3515	Bengaluru Rural	Doddaballapura	Dodballapur	22.3	22.5	23.0	37.0	37.5	37.9
3503	Bengaluru Rural	Doddaballapura	Dodbelavangala	21.7	22.0	22.5	36.7	36.9	37.2
3514	Bengaluru Rural	Doddaballapura	Madhure (Kanasawadi)	22.2	22.6	23.1	36.6	37.0	37.4
3765	Bengaluru Rural	Doddaballapura	Sasalu	23.1	23.5	24.0	37.9	38.3	38.6
3518	Bengaluru Rural	Doddaballapura	Tubagere	22.1	22.4	22.7	37.1	37.5	37.7
3549	Bengaluru Rural	Hosakote	Anugondhalli	22.8	23.2	23.8	37.1	37.7	38.2
3560	Bengaluru Rural	Hosakote	Jadigenhalli	21.7	22.3	23.1	36.1	36.3	36.7
3552	Bengaluru Rural	Hosakote	Nandagudi	22.0	22.4	22.7	36.1	36.4	36.8
3562	Bengaluru Rural	Hosakote	Sulibele	21.8	22.3	22.7	36.8	37.2	37.6
686	Bengaluru Rural	Nelamangala	Nelamangala_1	23.0	23.2	23.6	37.0	37.5	37.6
3516	Bengaluru Rural	Nelamangala	Sampura	22.4	22.6	22.9	36.5	36.7	37.1
3517	Bengaluru Rural	Nelamangala	Tyamagondal	22.6	23.0	23.2	37.1	37.4	37.7
7634	Bengaluru South	Channapatna	Channapatna	24.9	25.5	25.9	39.6	41.4	41.8
7649	Bengaluru South	Channapatna	Hakkuru Hosahalli (Virupakshapu)	24.3	24.7	25.0	40.0	40.4	40.8
7636	Bengaluru South	Channapatna	Mallur	24.7	25.3	25.9	39.6	41.3	41.8
10202	Bengaluru South	Harohalli	Bnp-Bugurikallu	23.7	24.2	24.3	38.0	38.2	38.3

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7635	Bengaluru South	Harohalli	Dodda Maralavadi	24.2	24.5	25.0	39.2	39.8	40.5
7637	Bengaluru South	Harohalli	Harohalli	24.2	24.8	25.5	38.6	39.1	39.6
7639	Bengaluru South	Kanakapura	Kodihalli	24.1	24.7	25.1	39.0	39.4	39.7
7645	Bengaluru South	Kanakapura	Satnuru	25.5	25.8	26.1	40.1	40.6	41.1
7648	Bengaluru South	Kanakapura	Uyyamballi	25.4	26.0	26.6	39.7	40.1	40.4
7642	Bengaluru South	Magadi	Chandurayanahalli	22.8	23.9	24.2	39.0	39.7	40.2
7641	Bengaluru South	Magadi	Kuduru	23.3	23.8	24.4	38.4	39.0	39.4
7643	Bengaluru South	Magadi	Magadi	23.0	23.9	24.2	38.4	39.7	40.2
7646	Bengaluru South	Magadi	Solur	23.7	24.0	24.5	38.7	39.1	39.6
7647	Bengaluru South	Magadi	Tippasanara	22.3	22.9	23.1	38.6	38.9	39.3
7640	Bengaluru South	Ramanagara	Kutgallu	24.7	25.2	25.8	39.8	40.8	41.5
7633	Bengaluru South	Ramanagara	Mayaganahalli	24.4	24.8	25.0	39.4	39.8	40.2
7644	Bengaluru South	Ramanagara	Ramanagara	25.1	25.6	26.2	38.9	39.2	39.4
672	Bengaluru Urban	Anekal	Anekal_1	22.8	23.0	23.5	37.3	37.6	37.6
3756	Bengaluru Urban	Anekal	Bommasandra	22.8	23.0	23.5	37.4	38.3	38.7
3764	Bengaluru Urban	Anekal	Sarjapur	22.9	23.3	23.8	37.3	37.7	38.2
3524	Bengaluru Urban	Bengaluru East	Hagaduru	23.5	23.6	24.0	37.6	37.9	38.2
3755	Bengaluru Urban	Bengaluru East	Kadugodi	23.5	23.6	24.0	38.2	38.5	38.8
3706	Bengaluru Urban	Bengaluru North	Yashavanthapur	23.5	23.8	24.2	36.4	37.0	37.8
3754	Bengaluru Urban	Bengaluru South	B.T.M.Layout	23.6	24.4	24.9	37.5	37.9	38.2
3731	Bengaluru Urban	Bengaluru South	Bommanahalli Konanakunte	23.5	24.4	25.0	37.5	37.9	38.3
10201	Bengaluru Urban	Bengaluru South	Doresanipalya(Empri)	22.8	23.2	23.5	36.4	36.5	36.6
3520	Bengaluru Urban	Bengaluru South	Kg Halli (Gonipura)	23.0	23.4	23.8	38.1	38.6	38.9
3700	Bengaluru Urban	Bengaluru South	Tavarekere	22.6	23.0	23.4	38.2	38.6	38.8
3672	Bengaluru Urban	Bengaluru South	Uttarahalli	23.0	23.3	23.7	37.9	38.4	38.7
3743	Bengaluru Urban	Yelahanka	Hesaragatta	22.9	23.2	23.3	37.3	37.6	38.1
765	Bengaluru Urban	Yelahanka	Jala	23.2	23.7	24.1	37.2	37.5	37.6
7002	Bengaluru Urban	Yelahanka	Ksndmc-Geoedge_1	23.0	23.6	23.7	36.4	36.9	36.9
3742	Bengaluru Urban	Yelahanka	Rajanukunte	22.5	22.7	23.2	37.7	38.2	38.4
1050	Bengaluru Urban	Yelahanka	Yelankha (Ksndmc)	22.5	22.9	23.3	36.7	36.9	37.0
703	Bidar	Aurad	Aurad_1	27.2	27.8	28.8	42.0	42.2	43.0
5662	Bidar	Aurad	Chintaki	27.7	28.4	29.0	42.0	42.3	42.8
5664	Bidar	Aurad	Santpur	28.0	28.6	29.5	42.1	42.8	43.3
488	Bidar	Basavakalyan	Basavakalyan_1	25.5	26.0	26.8	41.9	42.1	42.7
5673	Bidar	Basavakalyan	Kohinoor	25.6	26.2	26.5	41.5	42.1	42.9
5672	Bidar	Basavakalyan	Matala	26.1	26.7	27.8	41.1	41.3	41.7
5674	Bidar	Basavakalyan	Mudabi	26.5	26.7	27.3	41.5	42.0	42.6
5670	Bidar	Basavakalyan	Rajeshwar	26.6	27.1	28.0	40.9	41.4	42.1
5657	Bidar	Bhalki	Bhalki	26.2	26.8	27.7	41.4	42.0	42.5
5658	Bidar	Bhalki	Halburga	26.0	26.5	27.5	41.5	42.0	42.4
5656	Bidar	Bhalki	Khatak Chincholi	27.4	28.0	28.8	41.9	42.3	42.9
5659	Bidar	Bhalki	Lakangaon	26.6	27.2	27.9	42.0	42.2	42.8
8005	Bidar	Bhalki	Nittur Buzurg	26.2	27.4	28.4	42.1	42.8	43.2
5676	Bidar	Bhalki	Saigaon	25.7	26.4	26.9	40.1	40.7	41.3
5654	Bidar	Bidar	Bagadhal	26.9	27.4	28.5	42.0	42.4	43.0
5666	Bidar	Bidar	Bidar	26.4	27.3	28.1	41.5	41.7	42.0
5667	Bidar	Bidar	Bidar South (Halladakere)	27.8	28.1	28.8	41.3	41.7	42.2
5665	Bidar	Bidar	Janwada	26.1	26.7	27.5	40.6	41.6	42.2
5668	Bidar	Bidar	Kamthana	26.4	27.5	28.0	41.1	41.6	42.0
5669	Bidar	Bidar	Manalli	24.8	25.5	26.0	40.9	41.4	41.6
5653	Bidar	Chittaguppa	Bhimalkhed	25.9	26.4	26.9	41.0	41.7	42.4
5651	Bidar	Chittaguppa	Chitgoppa	27.2	27.9	28.6	40.9	41.4	42.0

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5652	Bidar	Chittaguppa	Nirna	26.9	28.2	28.9	41.8	42.3	42.5
5675	Bidar	Hulasuru	Hulsur	26.7	27.4	28.0	40.7	41.3	41.9
5671	Bidar	Humnabad	Dubalgundi	26.8	27.4	27.9	41.4	42.0	42.5
5655	Bidar	Humnabad	Hallikhedda	25.8	26.6	27.5	42.0	42.6	43.3
8004	Bidar	Humnabad	Humnabad	26.2	26.8	27.7	41.5	42.0	42.3
5661	Bidar	Kamalanagara	Dabaka	26.9	28.0	28.4	41.9	42.1	43.1
5660	Bidar	Kamalanagara	Kamalnagar	26.9	27.7	28.3	42.1	42.6	43.1
5663	Bidar	Kamalanagara	Thanakushanur	26.7	27.3	28.1	41.7	42.1	42.8
746	Chamarajanagara	Chamarajanagara	Chamarajanagar	22.4	22.9	23.4	38.7	39.3	39.8
214	Chamarajanagara	Chamarajanagara	Chandakavadi	22.5	23.0	23.3	37.3	37.7	38.2
234	Chamarajanagara	Chamarajanagara	Haradhanalli	22.3	22.9	23.4	37.1	37.6	38.2
266	Chamarajanagara	Chamarajanagara	Harve	22.2	22.3	22.5	36.3	36.6	36.9
520	Chamarajanagara	Chamarajanagara	Santemarahalli	23.2	23.6	23.9	37.8	38.3	38.5
744	Chamarajanagara	Gundlupet	Begur	22.5	22.7	23.1	37.3	37.7	38.3
262	Chamarajanagara	Gundlupet	Gundlupet	21.8	22.2	22.8	37.1	37.5	38.2
518	Chamarajanagara	Gundlupet	Terakanambi	21.7	22.2	22.5	36.9	37.3	37.9
511	Chamarajanagara	Hanur	Hanur	23.5	23.9	24.5	38.1	38.4	38.8
297	Chamarajanagara	Hanur	Lokkanahalli	23.0	23.6	24.3	38.8	39.1	39.5
907	Chamarajanagara	Hanur	Ramapura	23.5	23.6	24.3	37.8	38.2	38.7
296	Chamarajanagara	Kollegal	Kollegal	23.4	23.6	24.0	39.3	39.6	40.3
261	Chamarajanagara	Kollegal	Palya	23.3	23.5	23.9	37.8	38.2	39.1
2191	Chamarajanagara	Yelandur	Agara (Br Hills)	23.1	23.4	23.9	38.1	38.5	39.3
3614	Chikkaballapura	Bagepalli	Bagepalli	24.9	25.2	25.5	38.9	39.2	39.4
3663	Chikkaballapura	Bagepalli	Chelur	24.2	24.7	25.2	39.1	39.9	40.1
3572	Chikkaballapura	Bagepalli	Guluru	25.2	25.5	25.7	38.9	39.2	39.4
3640	Chikkaballapura	Bagepalli	Mittemari	24.4	25.0	25.5	39.2	39.5	40.0
3638	Chikkaballapura	Bagepalli	Pathapalya	24.9	25.6	25.8	38.8	39.2	39.5
3543	Chikkaballapura	Chikkaballapura	Chikkaballapura	22.9	23.3	23.8	37.6	37.7	38.1
3536	Chikkaballapura	Chikkaballapura	Mandikal	23.7	24.2	24.7	37.9	38.4	38.6
3752	Chikkaballapura	Chikkaballapura	Nandi	23.8	24.3	24.5	38.2	38.6	38.7
3679	Chikkaballapura	Chintamani	Chilakalanerpu	23.9	24.2	25.0	39.0	39.4	39.6
3655	Chikkaballapura	Chintamani	Chintamani	22.4	22.8	23.3	38.4	38.9	39.4
3525	Chikkaballapura	Chintamani	Iragampalli (Munganahalli)	23.4	23.6	24.1	38.8	39.2	39.4
3584	Chikkaballapura	Chintamani	Kaiwara	22.5	22.8	23.4	37.9	38.4	38.9
3633	Chikkaballapura	Chintamani	Murugamale (Chelmakate)	22.2	22.8	23.5	37.4	37.6	38.0
3538	Chikkaballapura	Gauribidanur	D.Palya	24.3	24.9	25.2	39.0	39.3	39.4
3541	Chikkaballapura	Gauribidanur	Gauribidanur	23.8	24.5	25.4	39.0	39.5	39.7
7654	Chikkaballapura	Gauribidanur	Gowdagere	25.7	25.9	26.1	40.0	40.2	40.5
3531	Chikkaballapura	Gauribidanur	Hosur	24.1	24.7	25.4	39.0	39.3	39.7
3551	Chikkaballapura	Gauribidanur	Manchenahalli	24.2	24.9	25.5	39.1	39.4	39.5
3542	Chikkaballapura	Gauribidanur	Nagaragere	24.8	25.2	25.5	39.1	39.4	39.7
3544	Chikkaballapura	Gauribidanur	Tondebavi	24.2	24.7	25.2	39.3	39.6	40.0
3535	Chikkaballapura	Gudibanda	Gudibanda	24.8	25.0	25.3	38.0	38.3	38.6
3767	Chikkaballapura	Gudibanda	Somenahalli	23.5	24.0	24.5	39.0	39.5	40.6
3695	Chikkaballapura	Sidlaghatta	Bashattahalli	23.3	23.7	24.0	38.0	38.2	38.7
3545	Chikkaballapura	Sidlaghatta	Jangamakote	21.8	22.6	23.1	37.4	37.6	38.0
3645	Chikkaballapura	Sidlaghatta	Sadali	23.5	24.0	24.3	38.3	38.4	38.8
3539	Chikkaballapura	Sidlaghatta	Sidlaghatta	22.2	22.7	22.9	38.0	38.1	38.7
3556	Chikkamagaluru	Ajjampura	Ajjampur	22.8	23.0	23.5	38.3	38.6	38.9
3766	Chikkamagaluru	Ajjampura	Chowlahiriyur	23.2	23.5	23.9	39.1	39.3	39.5
3565	Chikkamagaluru	Ajjampura	Shivani	22.8	23.1	23.6	38.1	38.4	38.8
3613	Chikkamagaluru	Chikkamagaluru	Aldur	19.9	20.4	21.0	35.6	36.2	36.7

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STATION CODE	DISTRICT	TALUK	HOBLI	T_{min}' P_{90}	T_{min}' P_{95}	T_{min}' P_{98}	T_{max}' P_{90}	T_{max}' P_{95}	T_{max}' P_{98}
3735	Chikkamagaluru	Chikkamagaluru	Amble	20.8	21.3	21.6	36.1	36.4	36.8
659	Chikkamagaluru	Chikkamagaluru	Chickmagalur_1	21.8	22.1	22.4	37.0	37.4	37.8
3559	Chikkamagaluru	Chikkamagaluru	Kalasapur	22.1	22.4	22.5	37.2	37.6	38.0
3578	Chikkamagaluru	Chikkamagaluru	Lakya	22.0	22.3	22.6	36.6	36.9	37.1
3684	Chikkamagaluru	Chikkamagaluru	Sangmeswpet (Khandya)	20.3	20.7	21.2	35.7	36.4	37.4
3664	Chikkamagaluru	Chikkamagaluru	Vasthare	20.1	20.7	21.3	35.9	36.4	37.2
3554	Chikkamagaluru	Kadur	Birur	22.5	23.0	23.4	37.7	38.0	38.4
3627	Chikkamagaluru	Kadur	Hirenalluru	22.4	22.9	23.4	38.2	38.6	38.9
638	Chikkamagaluru	Kadur	Kadur_1	22.4	22.9	23.4	38.7	38.9	39.7
3546	Chikkamagaluru	Kadur	Panchanahalli	23.6	23.8	24.1	38.4	38.8	38.8
3548	Chikkamagaluru	Kadur	Sakkarepatna	21.8	22.1	22.4	38.2	38.5	38.8
3547	Chikkamagaluru	Kadur	Shingatagere	23.0	23.2	23.5	37.5	37.7	38.0
3665	Chikkamagaluru	Kadur	Yagati	23.2	23.6	23.9	38.3	38.6	38.9
3662	Chikkamagaluru	Kalasa	Kalasa	22.3	23.1	23.7	35.5	36.0	37.3
3650	Chikkamagaluru	Koppa	Hariharpur	22.9	23.1	23.5	38.4	39.0	39.6
658	Chikkamagaluru	Koppa	Koppa_1	23.1	23.7	23.8	38.6	39.1	39.6
3639	Chikkamagaluru	Koppa	Meguda (Jayapur)	23.0	23.4	24.3	37.6	38.5	39.2
3632	Chikkamagaluru	Mudigere	Bankal	21.0	21.5	21.6	34.3	35.2	36.1
3648	Chikkamagaluru	Mudigere	Gonibidu	21.3	21.8	22.2	35.1	35.6	36.0
3629	Chikkamagaluru	Mudigere	Javali	20.8	21.4	21.5	35.0	35.3	36.1
3649	Chikkamagaluru	Narasimharajapura	Balehonnur	21.6	22.3	22.8	36.7	37.4	37.8
690	Chikkamagaluru	Narasimharajapura	Narasimharajapur_1	22.3	22.6	23.0	37.1	37.6	38.2
3691	Chikkamagaluru	Sringeri	Kigga	22.4	23.0	23.4	37.5	37.8	38.9
736	Chikkamagaluru	Sringeri	Sringeri_1	22.1	22.6	23.1	37.5	37.8	38.9
3564	Chikkamagaluru	Tarikere	Amrutapur	22.5	23.0	23.1	38.3	38.8	39.4
10200	Chikkamagaluru	Tarikere	Kemmannugundi	22.9	23.3	23.8	36.4	36.5	37.5
3625	Chikkamagaluru	Tarikere	Lakavalli	23.6	23.9	24.2	38.7	39.0	39.4
3553	Chikkamagaluru	Tarikere	Lingadahalli	22.9	23.2	23.6	37.1	37.5	37.8
679	Chikkamagaluru	Tarikere	Tarikere_1	22.5	22.7	23.1	38.2	38.9	39.2
7522	Chitradurga	Challakere	Challakere	26.7	27.2	27.8	40.9	41.4	42.0
7521	Chitradurga	Challakere	Parasurampura	25.6	26.0	26.5	40.9	41.2	41.4
7523	Chitradurga	Challakere	Thalku	25.6	25.9	26.6	40.9	41.4	41.9
7526	Chitradurga	Chitradurga	Bharmasagara	24.3	24.6	25.2	39.2	39.9	40.3
462	Chitradurga	Chitradurga	Chitradurga_1	24.2	24.6	25.1	38.5	38.8	39.3
1044	Chitradurga	Chitradurga	Hgml-Ingaldhal_1	24.5	25.2	26.0	38.5	38.8	39.3
7524	Chitradurga	Chitradurga	Hire Guntanur	23.7	24.1	24.5	38.9	39.3	39.9
7525	Chitradurga	Chitradurga	Turuvanur	24.4	24.6	25.1	39.4	39.7	40.2
7528	Chitradurga	Hiriyur	Aymangala	25.1	25.5	25.9	39.7	39.9	40.4
7529	Chitradurga	Hiriyur	Dharmapura	25.3	25.8	26.1	39.2	39.8	40.1
145	Chitradurga	Hiriyur	Hiriyur_1	24.9	25.2	25.5	40.8	41.3	42.1
7530	Chitradurga	Hiriyur	Javanagondanahalli	25.7	26.1	26.6	40.4	40.6	41.3
7534	Chitradurga	Holalkere	Bharmanaikanadurga	23.7	24.0	24.3	38.6	39.0	39.9
7535	Chitradurga	Holalkere	Ramagiri	23.8	24.1	24.3	39.0	39.3	39.6
7536	Chitradurga	Holalkere	Talya	24.3	24.6	24.9	38.6	38.8	39.1
152	Chitradurga	Hosadurga	Hosdurga_1	23.7	24.1	24.4	38.7	39.0	39.1
7533	Chitradurga	Hosadurga	Madadhakeri	24.0	24.2	24.5	38.2	38.4	38.9
7532	Chitradurga	Hosadurga	Mathodu	24.4	24.7	25.0	39.0	39.6	40.4
7531	Chitradurga	Hosadurga	Srirampura	24.3	24.4	24.7	39.2	39.6	40.0
7527	Chitradurga	Molakalmuru	Molakalmuru	26.1	26.7	27.0	40.2	40.6	41.1
508	Dakshina Kannada	Bantwal	Bantwal	25.8	26.5	26.8	37.8	38.2	38.6
3728	Dakshina Kannada	Bantwal	Pane Mangalore	26.2	26.7	26.9	38.2	38.5	38.8
3760	Dakshina Kannada	Bantwal	Vitla	26.2	26.7	27.0	38.1	38.3	38.7

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509	Dakshina Kannada	Beltangadi	Beltangadi	25.1	25.7	26.4	38.7	39.2	39.7
3626	Dakshina Kannada	Beltangadi	Kokkada	25.5	25.8	26.3	38.1	38.8	39.5
3741	Dakshina Kannada	Beltangadi	Venur	25.5	25.8	26.2	37.9	38.7	39.3
3670	Dakshina Kannada	Kadaba	Kadaba	25.5	25.8	26.3	38.3	39.3	40.0
3661	Dakshina Kannada	Mangaluru	Gurpur	26.2	26.7	27.6	37.6	38.1	38.3
510	Dakshina Kannada	Mangaluru	Mangalore (A)	27.5	28.0	28.1	37.6	38.2	38.3
1051	Dakshina Kannada	Mangaluru	Pilikula	26.7	27.0	27.6	37.7	38.2	38.4
1052	Dakshina Kannada	Mangaluru	Surathkal	27.4	27.5	28.0	37.6	38.1	38.3
3685	Dakshina Kannada	Mudabidri	Mudbidri	26.4	26.7	27.2	37.5	37.7	38.2
3671	Dakshina Kannada	Mulki	Mulki	26.8	27.4	28.2	37.8	38.2	38.4
235	Dakshina Kannada	Puttur	Puttur	25.9	26.2	26.7	38.0	38.3	39.2
3634	Dakshina Kannada	Puttur	Uppinangadi	25.8	26.3	26.7	38.3	38.9	40.1
3718	Dakshina Kannada	Sulya	Mandekolu	25.7	26.2	26.4	38.3	38.8	40.0
3732	Dakshina Kannada	Ullala	Mangalore (B)	27.4	27.6	28.1	37.6	38.2	38.3
7560	Davanagere	Channagiri	Basavapatna (2) Tyavanagi	26.0	26.5	26.7	40.6	40.7	41.3
7571	Davanagere	Channagiri	Channagiri	23.9	24.3	24.5	38.3	38.7	39.1
7572	Davanagere	Channagiri	Sante Bennur (1)	24.6	25.0	25.4	39.6	40.2	40.5
7559	Davanagere	Channagiri	Santebannur (2)Devarahalli	24.6	24.9	25.5	39.6	40.2	40.9
7573	Davanagere	Channagiri	Ubrani	23.9	24.3	24.8	39.2	39.7	40.1
7564	Davanagere	Davanagere	Anogodu	25.0	26.0	27.3	39.6	40.3	40.7
207	Davanagere	Davanagere	Davanagere	25.1	26.0	26.4	40.3	41.0	41.5
7565	Davanagere	Davanagere	Mayakonda	24.3	25.0	25.1	39.1	39.8	40.4
436	Davanagere	Harihara	Harihar_1	24.1	24.2	24.4	40.0	40.4	40.8
7563	Davanagere	Harihara	Malebennur	24.3	25.1	27.2	40.0	40.7	42.0
7562	Davanagere	Honnali	Govinakovi (2)	24.3	24.6	25.0	39.3	39.8	40.1
438	Davanagere	Honnali	Honnali_1	24.8	25.5	25.8	40.3	41.3	41.7
7568	Davanagere	Honnali	Sasavehalli (1)	24.1	24.3	24.6	38.9	39.6	40.2
7566	Davanagere	Honnali	Sasvehalli-2 (Kunduru)	25.9	26.4	27.3	40.7	41.2	42.3
7574	Davanagere	Jagalur	Bilichodu	24.8	25.2	25.6	40.1	40.4	40.7
7576	Davanagere	Jagalur	Sokke	25.3	25.5	25.9	40.4	40.8	41.2
7575	Davanagere	Nyamati	Belagutti	24.7	25.0	25.4	39.9	40.4	40.9
7567	Davanagere	Nyamati	Govinakovi (1)	24.4	25.0	25.3	38.7	39.0	39.5
3722	Dharwad	Alnavara	Alnavar	23.0	23.7	24.8	40.7	41.2	41.3
3724	Dharwad	Annigeri	Annigeri	22.9	23.4	24.1	40.4	41.0	41.3
3725	Dharwad	Dharwad	Aminbhavi	22.9	23.0	23.6	38.9	39.3	39.5
3709	Dharwad	Dharwad	Dharwad	22.5	23.0	23.5	39.7	40.1	40.6
3711	Dharwad	Dharwad	Uppinabetageri	22.5	22.8	23.3	39.8	40.1	40.5
3719	Dharwad	Hubballi	Chabbi	23.0	23.4	24.0	40.7	41.4	41.8
3707	Dharwad	Hubballi	Shirguppi	24.2	24.5	24.9	39.8	40.4	41.4
5515	Dharwad	Hubballi Nagara	Hubli_1	23.6	24.1	24.5	38.8	40.0	41.3
3723	Dharwad	Kalghatgi	Dummavada	22.9	23.5	24.2	39.9	40.2	40.6
5513	Dharwad	Kalghatgi	Kalghatgi	23.6	24.1	24.3	38.6	39.1	40.2
3699	Dharwad	Kalghatgi	Tabkadhonnihalli	23.1	23.8	24.1	39.7	40.4	41.0
5514	Dharwad	Kundgol	Kundgol	24.4	24.9	25.1	39.7	40.2	40.6
3696	Dharwad	Kundgol	Saunshi	23.1	23.4	23.9	39.3	39.7	40.0
3717	Dharwad	Navalgund	Morab	23.0	23.5	24.0	40.1	40.4	41.2
114	Dharwad	Navalgund	Navalgund(Morab)_1	24.2	25.0	25.8	41.8	42.6	43.1
5621	Gadag	Gadag	Betageri	25.1	25.6	25.8	39.9	40.5	40.8
5512	Gadag	Gadag	Hulikoti	24.4	24.7	25.1	39.7	40.2	40.7
5622	Gadag	Gajendragad	Nargil	25.1	25.7	26.4	40.9	41.2	41.8
5619	Gadag	Laxmeshwar	Lakshmeshwar	24.4	24.6	24.9	38.8	39.1	39.6
5620	Gadag	Mundargi	Dambal	25.4	25.9	26.3	40.7	41.2	41.4

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5509	Gadag	Mundargi	Mundargi	25.9	26.4	26.6	40.2	40.6	41.0
5618	Gadag	Naragund	Konnur	24.7	25.1	25.6	39.5	40.1	41.2
5511	Gadag	Naragund	Naragund	25.2	25.6	26.2	40.6	41.4	41.9
5623	Gadag	Ron	Hole Alur	25.1	25.6	26.0	41.2	41.6	41.9
5510	Gadag	Ron	Ron	24.9	25.6	26.1	40.9	41.2	41.5
5508	Gadag	Shirahatti	Shirahatti	24.8	25.4	25.9	39.9	40.2	40.6
441	Hassan	Alur	Alur_1	21.3	21.5	21.7	36.2	36.7	37.0
3675	Hassan	Alur	Kenchamman Hoskote	21.2	21.5	21.6	35.0	35.6	36.1
3630	Hassan	Alur	Kundur	21.4	21.6	21.7	36.3	36.8	37.3
3643	Hassan	Alur	Palya	21.1	21.3	21.7	36.3	36.8	37.0
228	Hassan	Arasikere	Arasikere_1	23.0	23.3	23.5	37.4	37.7	37.9
3591	Hassan	Arasikere	Banavara	23.1	23.3	23.6	38.2	38.7	39.3
3599	Hassan	Arasikere	Gandasi	22.4	22.8	23.4	36.3	36.4	36.8
3600	Hassan	Arasikere	Javagal	22.7	23.0	23.4	37.8	38.0	38.3
3593	Hassan	Arasikere	Kanakatte	23.5	23.8	24.0	37.3	37.7	38.2
3660	Hassan	Arkalgud	Doddamagge	22.7	23.1	23.4	37.1	37.6	37.9
3659	Hassan	Arkalgud	Konanuru	22.0	22.3	22.5	37.5	38.0	38.4
3641	Hassan	Arkalgud	Mallipatna	23.3	24.1	24.9	36.9	37.7	38.8
3642	Hassan	Arkalgud	Ramanathapura	22.1	22.3	22.6	37.7	38.0	38.4
3635	Hassan	Belur	Arehalli	23.1	24.1	24.7	36.9	38.0	38.8
3689	Hassan	Belur	Bikkodu	22.2	22.7	22.9	37.3	37.6	38.1
3647	Hassan	Belur	Halebeedu	22.3	22.6	23.2	36.8	37.2	37.4
3590	Hassan	Belur	Madihalli	22.1	22.4	22.8	36.7	37.2	37.3
3637	Hassan	Channarayapatna	Baguru	21.8	22.1	22.4	36.9	37.0	37.2
3656	Hassan	Channarayapatna	Channarayapatna	22.2	22.7	23.3	38.3	38.9	39.4
3602	Hassan	Channarayapatna	Dandiganahalli	21.5	21.7	21.9	37.4	37.8	38.3
3631	Hassan	Channarayapatna	Hirisave	23.1	23.8	24.7	37.5	37.8	38.1
3644	Hassan	Channarayapatna	Nuggehalli	21.8	22.1	22.3	37.2	37.5	37.8
3594	Hassan	Hassan	Dudda	21.2	21.6	21.9	36.0	36.6	37.0
3596	Hassan	Hassan	Hassan	21.3	21.6	21.7	36.7	36.9	37.5
10181	Hassan	Hassan	Karekere	21.2	21.6	21.7	36.8	37.0	37.5
3636	Hassan	Hassan	Kattya	22.7	23.2	23.7	36.9	37.4	37.7
3605	Hassan	Hassan	Salagame	23.2	23.8	24.4	37.6	37.9	38.4
3595	Hassan	Hassan	Shantigrama	21.5	21.6	21.9	36.3	36.8	37.4
3646	Hassan	Holenarasipura	Halekote	22.0	22.5	23.2	37.6	39.4	39.7
3698	Hassan	Holenarasipura	Halli Mysore	22.0	22.4	22.5	36.8	37.4	37.6
3676	Hassan	Sakaleshpura	Balegodu	21.1	21.3	21.7	35.8	36.2	36.3
3705	Hassan	Sakaleshpura	Hanbalu	21.3	21.8	22.2	34.9	35.4	35.6
3628	Hassan	Sakaleshpura	Hettur	21.1	21.4	21.6	35.5	36.3	36.9
3651	Hassan	Sakaleshpura	Sakaleshpur	23.5	24.2	24.7	37.8	38.6	39.2
3652	Hassan	Sakaleshpura	Yaslur	21.5	21.7	21.9	35.4	35.9	36.3
5507	Haveri	Byadgi	Byadgi	24.8	25.3	25.8	38.7	39.2	39.3
3511	Haveri	Byadgi	Kaginelli	23.9	24.7	25.1	39.5	39.8	40.2
3506	Haveri	Hanagal	Akki Alur	24.1	24.8	25.2	39.0	39.5	40.2
3505	Haveri	Hanagal	Bommanhalli	23.7	24.3	24.7	40.7	41.1	41.8
5504	Haveri	Hanagal	Hangal	24.4	24.8	25.3	38.7	39.2	40.1
5501	Haveri	Haveri	Devihosur	24.9	25.3	25.7	39.6	40.2	40.5
3501	Haveri	Haveri	Guttal	24.2	24.7	24.9	40.1	40.5	40.9
3508	Haveri	Haveri	Haveri	25.6	26.3	27.0	40.2	40.7	41.3
3509	Haveri	Hirekerur	Haunsbhavi	24.0	24.6	25.1	38.6	39.0	39.5
5505	Haveri	Hirekerur	Hirekerur	24.1	24.4	24.9	37.4	37.8	38.6
3510	Haveri	Ranebennur	Kuppelur	25.1	25.4	26.0	38.9	39.7	40.1

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3512	Haveri	Ranebennur	Medleri	24.4	25.1	25.6	39.2	39.6	40.0
5506	Haveri	Ranebennur	Ranebennur	25.1	25.4	26.0	38.4	38.9	39.0
3507	Haveri	Ratteeahalli	Rattihalli	24.3	24.5	25.1	38.7	39.6	40.1
3502	Haveri	Savanur	Hatti Mattur	24.5	24.7	24.9	39.8	40.3	40.8
5503	Haveri	Savanur	Savanur	24.4	24.7	24.9	39.9	40.3	40.8
3513	Haveri	Shiggaon	Bankapur	24.3	24.7	25.0	40.1	40.5	41.1
3504	Haveri	Shiggaon	Huluguru	23.7	24.2	24.7	39.3	39.5	39.9
5502	Haveri	Shiggaon	Shiggaon	24.4	24.8	25.1	39.7	40.1	40.7
175	Kalaburagi	Afzalpur	Afzalpur_1	26.0	26.8	27.4	42.3	42.7	43.2
5528	Kalaburagi	Afzalpur	Atanur	26.3	27.2	27.6	42.6	43.0	43.7
5529	Kalaburagi	Afzalpur	Karajgi	27.1	28.1	28.6	43.2	43.8	44.3
8011	Kalaburagi	Aland	Aland	26.3	27.2	27.9	42.4	42.8	43.1
5526	Kalaburagi	Aland	Khajuri	26.6	27.6	28.4	42.6	43.0	43.4
5530	Kalaburagi	Aland	Madana Hipparga	27.1	27.9	28.7	42.5	43.0	43.6
5533	Kalaburagi	Aland	Narona	26.6	27.2	27.8	42.0	42.3	42.8
5531	Kalaburagi	Aland	Nimbarga Tanda	26.8	27.6	28.3	42.6	43.3	43.7
5538	Kalaburagi	Chincholi	Ainapur	26.5	27.3	27.7	41.8	42.3	42.6
109	Kalaburagi	Chincholi	Chincholi_1	26.5	26.9	27.3	42.6	43.1	43.6
5537	Kalaburagi	Chincholi	Sulepet	27.3	28.0	28.6	42.6	43.0	43.3
8013	Kalaburagi	Chittapur	Chittapur_1	27.3	27.7	28.9	42.2	42.7	43.2
5541	Kalaburagi	Chittapur	Gundgurti	27.8	28.9	29.6	42.9	43.7	44.4
5536	Kalaburagi	Chittapur	Nalavara	28.2	29.2	29.9	42.4	43.1	43.6
5544	Kalaburagi	Jevargi	Andola	27.5	28.4	29.3	42.4	43.0	43.4
8010	Kalaburagi	Jevargi	Jewargi	27.4	28.1	29.3	42.8	43.3	44.1
5542	Kalaburagi	Jevargi	Nelogi	26.8	27.4	27.9	42.2	42.7	43.5
5539	Kalaburagi	Kalaburagi	Aurad	26.6	27.2	28.0	42.4	42.8	43.2
5521	Kalaburagi	Kalaburagi	Farhatabad	26.5	28.0	29.0	42.2	42.6	42.9
423	Kalaburagi	Kalaburagi	Gulbarga	26.3	26.7	27.7	42.2	42.6	43.0
5532	Kalaburagi	Kalaburagi	Pattan	27.6	28.2	29.4	42.5	42.9	43.4
5527	Kalaburagi	Kalagi	Kalgi	26.5	27.1	27.7	41.9	42.2	42.7
5534	Kalaburagi	Kalagi	Kodli	27.2	28.0	29.0	42.9	43.5	44.3
5540	Kalaburagi	Kamalapura	Kamlapur	26.3	27.0	27.5	42.1	42.6	43.3
8012	Kalaburagi	Kamalapura	Mahagaon Tanda	26.2	26.8	27.8	42.4	42.7	43.5
5523	Kalaburagi	Sedam	Adki	28.1	28.9	29.3	42.0	42.5	42.8
5524	Kalaburagi	Sedam	Kanagadda	28.2	28.8	29.2	42.3	43.0	43.8
5525	Kalaburagi	Sedam	Kodla	27.3	28.1	28.5	41.1	41.4	42.0
401	Kalaburagi	Sedam	Sedam_1	26.4	27.0	28.2	42.0	42.4	42.7
5535	Kalaburagi	Shahbadha	Shahabad	27.8	29.0	29.5	42.8	43.3	43.8
5522	Kalaburagi	Yadrami	Ijeri	26.1	26.8	27.5	42.7	43.1	44.1
5543	Kalaburagi	Yadrami	Yedrami	28.0	28.7	29.5	42.8	43.5	44.1
1043	Kodagu	Kushalnagar	Harangi	21.1	21.5	21.7	36.4	36.8	37.4
3532	Kodagu	Kushalnagar	Kushalnagar	21.6	21.9	22.4	36.9	37.5	38.3
3530	Kodagu	Kushalnagar	Suntikoppa	20.8	21.2	21.7	36.2	36.9	37.4
3537	Kodagu	Madikeri	Bhagamandala	21.2	21.7	22.0	33.4	34.0	34.7
583	Kodagu	Madikeri	Madikeri_1	20.0	21.0	21.2	33.3	33.9	34.6
3527	Kodagu	Madikeri	Napoklu	20.6	21.1	21.3	34.7	35.5	35.9
3529	Kodagu	Madikeri	Sampaje	22.0	22.8	24.2	35.1	37.9	39.2
3569	Kodagu	Ponnampet	Blale	21.4	21.9	22.2	35.7	36.1	36.8
3586	Kodagu	Ponnampet	Hudakere	21.1	21.9	22.2	36.4	38.0	38.9
3558	Kodagu	Ponnampet	Ponnampet	21.1	21.8	22.2	36.1	37.7	38.9
3528	Kodagu	Ponnampet	Srimangala	21.1	21.6	22.1	35.5	35.6	36.5
3580	Kodagu	Somwarpet	Kodlipet	21.4	21.7	21.8	35.2	35.8	36.3

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STATION CODE	DISTRICT	TALUK	HOBLI	T_{min}' P_{90}	T_{min}' P_{95}	T_{min}' P_{98}	T_{max}' P_{90}	T_{max}' P_{95}	T_{max}' P_{98}
3534	Kodagu	Somwarpet	Sanivarsante	22.0	22.9	24.7	35.9	36.4	37.1
3566	Kodagu	Somwarpet	Santhahalli	21.3	22.1	24.7	34.8	35.6	36.6
3771	Kodagu	Somwarpet	Somwarpet	19.6	19.7	19.9	33.6	34.1	34.6
3533	Kodagu	Virajpet	Ammati	20.9	21.1	21.2	35.3	35.6	36.0
433	Kodagu	Virajpet	Virajpet_1	21.6	22.1	22.4	35.9	37.0	37.7
3669	Kolar	Bangarapet	Bangarapet	22.6	23.4	23.9	38.2	38.6	39.2
3688	Kolar	Bangarapet	Budikote	22.1	22.7	23.4	38.4	39.0	39.3
3733	Kolar	Bangarapet	Kamsandra	22.0	22.6	23.3	38.8	39.3	39.9
3750	Kolar	Kgf	Betmangala	22.4	23.2	24.0	37.8	38.3	38.6
3702	Kolar	Kgf	Kyasamballi	22.3	23.1	24.0	38.8	39.5	40.3
3668	Kolar	Kgf	Robertsonpet	22.2	22.8	23.3	38.1	38.4	38.7
3686	Kolar	Kolar	Huttur	22.5	23.1	23.7	38.0	38.2	38.6
3713	Kolar	Kolar	Kolar	23.2	24.3	25.4	38.9	39.4	39.6
3716	Kolar	Kolar	Narasapura	22.6	23.5	24.9	39.3	39.6	40.0
3690	Kolar	Kolar	Rajakallahalli Vemagal	22.3	22.9	23.1	36.7	36.9	37.4
3658	Kolar	Kolar	Sugaturu	22.3	22.9	23.3	37.6	38.2	38.6
3692	Kolar	Kolar	Vakkaleri	22.7	23.6	24.3	38.0	38.6	38.8
3708	Kolar	Malur	Lakkur	23.0	24.1	24.8	38.3	38.8	38.8
3710	Kolar	Malur	Malur	23.0	23.5	23.8	37.5	37.9	38.3
3714	Kolar	Malur	Masathi	24.3	24.9	25.4	39.4	39.7	39.9
3693	Kolar	Malur	Tyakal	24.0	24.4	25.3	39.0	39.0	39.1
3726	Kolar	Mulabagilu	Avani	22.4	23.1	23.7	38.6	39.0	39.4
3729	Kolar	Mulabagilu	Bairakur	22.9	23.6	24.4	38.6	39.3	39.8
3727	Kolar	Mulabagilu	Duggasandra	22.3	22.7	23.2	37.9	38.2	38.6
3740	Kolar	Mulabagilu	Mulbagal	22.8	23.4	23.8	37.6	38.1	38.4
3738	Kolar	Mulabagilu	Tayilur	22.2	23.0	23.6	38.1	38.5	39.2
3720	Kolar	Srinivasapura	Nelavanki	23.0	23.7	24.2	38.4	38.7	39.2
3737	Kolar	Srinivasapura	Rayalpadu	23.7	24.0	24.4	38.5	38.7	39.1
3736	Kolar	Srinivasapura	Ronuru	22.6	23.1	24.2	38.2	38.7	39.3
3734	Kolar	Srinivasapura	Srinivasapura	23.0	24.0	25.7	38.8	39.3	39.5
3715	Kolar	Srinivasapura	Yelldur	23.2	23.9	24.5	38.7	39.2	39.5
7513	Koppala	Gangavathi	Gangavathi	27.1	27.8	28.3	42.0	42.6	43.0
7517	Koppala	Gangavathi	Marali	26.2	27.0	28.3	42.2	42.8	43.1
7520	Koppala	Gangavathi	Venkatagiri	26.8	27.5	28.0	40.8	41.2	41.5
7515	Koppala	Kanakagiri	Kanakgeri	26.7	27.0	27.5	41.4	42.0	42.5
7518	Koppala	Kanakagiri	Nauli	26.9	27.4	28.0	41.9	42.5	43.6
7516	Koppala	Karatagi	Karatgi	27.2	27.4	28.0	42.1	42.4	42.7
7519	Koppala	Karatagi	Siddapur	26.3	27.0	27.5	42.1	42.5	42.9
7501	Koppala	Koppala	Alawandi	25.4	25.5	25.7	41.5	41.8	42.2
7503	Koppala	Koppala	Erakalgud	25.5	26.0	26.3	41.1	41.6	42.1
7502	Koppala	Koppala	Hitnal	25.8	26.2	26.7	41.0	41.6	41.8
7504	Koppala	Koppala	Koppal	26.0	26.3	26.6	41.2	41.6	42.1
7510	Koppala	Kukanuru	Kuknur	25.6	25.9	26.4	40.1	40.6	41.1
7511	Koppala	Kukanuru	Manglur	25.6	26.1	26.5	41.2	41.6	42.0
7505	Koppala	Kushtagi	Hanamsagar	25.5	26.1	26.9	40.3	40.7	41.1
7506	Koppala	Kushtagi	Hanumanhal	25.7	26.1	26.7	41.3	41.8	42.1
7507	Koppala	Kushtagi	Kushtagi	26.1	26.5	27.1	40.4	40.5	41.0
7508	Koppala	Kushtagi	Tavaragera	26.5	26.9	27.4	40.7	41.1	41.5
7509	Koppala	Yelburga	Hire Wankalkunti	26.1	26.6	27.1	40.4	41.0	41.6
7512	Koppala	Yelburga	Yelburga	26.2	26.7	27.2	41.2	41.7	42.0
7577	Mandya	Krishnarajapet	Akkihebalu	22.8	23.1	23.5	37.5	38.0	38.4
7584	Mandya	Krishnarajapet	Bukanakere	22.8	23.2	23.4	36.9	37.4	37.6

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7590	Mandya	Krishnarajapet	Kikkeri	23.0	23.4	23.7	38.0	38.5	38.8
7594	Mandya	Krishnarajapet	Krishnarajapet	23.0	23.4	23.6	37.3	37.7	38.1
7601	Mandya	Krishnarajapet	Santebachahalli	22.5	22.8	23.1	36.5	37.3	38.6
7602	Mandya	Krishnarajapet	Silanare	22.6	22.9	23.2	36.9	37.4	37.8
7579	Mandya	Maddur	Autaguru (Kesturu)	23.7	24.3	24.7	38.7	38.9	39.5
7592	Mandya	Maddur	Chikkaarasinakere (Barathi Nagar	23.8	24.1	24.5	38.8	39.0	39.3
7595	Mandya	Maddur	Gejjalagere	23.8	24.1	24.5	39.0	39.5	40.0
7593	Mandya	Maddur	Koppa	23.5	23.9	24.3	38.2	38.5	38.8
7578	Mandya	Malavalli	Halaguru	24.5	25.0	25.8	39.2	39.6	39.9
7591	Mandya	Malavalli	Ragibommanahalli	24.0	24.9	25.6	38.8	39.2	39.6
7583	Mandya	Malavalli	Saragur	24.7	25.0	25.6	39.2	39.6	39.9
7589	Mandya	Mandya	Alaerke	23.9	24.2	24.3	38.0	38.3	38.6
7580	Mandya	Mandya	Basaralu	23.9	24.2	24.5	38.4	38.9	39.2
7587	Mandya	Mandya	Chandagalu (Near Dudda)	23.7	23.9	24.2	38.6	38.9	39.2
7597	Mandya	Mandya	Mandya	23.9	24.0	24.4	37.9	38.1	38.4
7581	Mandya	Nagamangala	Belluru	23.0	23.4	23.6	37.5	37.7	37.9
7582	Mandya	Nagamangala	Bendaganavele	23.1	23.5	23.7	36.7	37.3	37.8
7586	Mandya	Nagamangala	Devalapura	23.2	23.6	23.9	38.4	38.6	38.8
7588	Mandya	Nagamangala	Honakere	23.7	24.1	24.5	37.6	38.0	38.3
2017	Mandya	Nagamangala	Nagamangala	23.4	24.0	24.3	38.8	39.1	39.3
7585	Mandya	Pandavapura	Chinkurali	22.6	23.0	23.2	37.4	37.8	38.5
7598	Mandya	Pandavapura	Melukote	24.0	24.6	24.9	37.6	37.9	38.1
7596	Mandya	Srirangapatna	Arakere	23.9	24.3	24.9	37.9	38.8	39.0
7599	Mandya	Srirangapatna	Belagola	23.6	23.9	24.3	38.7	39.3	39.5
7600	Mandya	Srirangapatna	K. Setty Halli	23.7	24.4	24.6	37.9	38.4	38.9
7603	Mandya	Srirangapatna	Srirangapatna	23.7	24.2	24.5	38.2	38.6	38.9
3768	Mysuru	Heggadadevanakote	Antarasante	22.5	23.3	23.7	37.0	37.5	38.3
7620	Mysuru	Heggadadevanakote	Hampapura	23.9	24.1	24.6	38.7	39.2	39.4
7621	Mysuru	Heggadadevanakote	Heggadadevanakote	23.7	24.5	25.0	37.6	38.0	38.2
7607	Mysuru	Hunsur	Bilikere	22.6	22.8	23.8	37.0	37.3	38.0
7608	Mysuru	Hunsur	Gowdargyare	22.9	23.3	23.7	38.3	39.0	39.4
7609	Mysuru	Hunsur	Hanagoadu	22.7	23.2	23.8	38.2	38.7	39.2
7614	Mysuru	Krishnarajanagar	Hebbalu	22.9	23.2	23.4	36.6	37.4	37.6
739	Mysuru	Krishnarajanagar	Krishnarajanagar_1	22.7	23.2	23.4	37.2	37.6	38.1
3769	Mysuru	Mysuru	Elivala	22.3	22.7	23.2	38.3	38.7	39.5
7606	Mysuru	Mysuru	Jayapura	23.8	24.1	24.4	38.0	38.3	38.5
3770	Mysuru	Mysuru	Mysore	22.6	23.0	23.3	37.5	38.3	39.2
7605	Mysuru	Mysuru	Varuna	24.7	24.9	25.6	38.5	38.8	39.1
7623	Mysuru	Nanjanagud	Bilikare	23.7	23.9	24.4	38.1	38.4	38.6
7624	Mysuru	Nanjanagud	Chikkayyana Chattra	23.8	24.1	24.4	38.7	39.1	39.2
7625	Mysuru	Nanjanagud	Doddakowlande	23.4	23.7	23.9	37.8	38.2	38.7
7626	Mysuru	Nanjanagud	Hullahalli	23.9	24.1	24.4	38.1	38.3	38.7
7612	Mysuru	Periyapatna	Bettadpur	21.9	22.2	22.6	37.6	38.3	38.7
7613	Mysuru	Periyapatna	Haranahalli	21.9	22.2	22.6	37.7	38.3	38.7
7611	Mysuru	Periyapatna	Ravanduru	22.8	23.1	23.6	37.6	38.2	38.5
7615	Mysuru	Saligrama	Chanachanakatte	23.0	23.4	23.9	37.9	38.2	38.6
7616	Mysuru	Saligrama	Mirale	22.9	23.2	23.5	37.6	37.9	38.5
7618	Mysuru	Saligrama	Saligram	22.8	23.0	23.3	38.2	38.5	39.1
7622	Mysuru	Saraguru	B.Matakere	23.5	24.4	24.6	37.6	38.3	39.1
7628	Mysuru	T.Narasipura	Bannur	23.9	24.3	24.9	39.2	39.5	40.2
7629	Mysuru	T.Narasipura	Muguru	24.2	24.4	24.7	38.3	38.5	39.0

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7631	Mysuru	T.Narasipura	T. Narasipur	24.4	24.7	24.8	39.2	39.7	39.8
7632	Mysuru	T.Narasipura	Talakad	23.7	24.0	24.3	38.5	38.8	39.3
5562	Raichur	Deodurga	Arakeri	28.0	28.6	29.8	40.4	41.3	42.3
8015	Raichur	Deodurga	Devadurga_1	27.6	27.9	28.5	42.0	42.8	42.9
5563	Raichur	Deodurga	Gabbur	28.0	28.8	29.5	42.0	42.6	42.9
5561	Raichur	Deodurga	Jalihalli	28.0	28.8	29.1	41.3	41.9	42.8
5560	Raichur	Lingsugur	Gurgunta	27.6	28.5	28.8	41.6	41.9	42.5
8014	Raichur	Lingsugur	Lingsugur	26.1	26.7	26.9	40.8	41.4	41.7
5567	Raichur	Lingsugur	Mudgal	26.9	27.7	28.3	41.2	41.5	42.2
5575	Raichur	Manvi	Hire Katankal	27.1	27.8	28.2	40.7	41.5	42.4
5577	Raichur	Manvi	Kurdi	28.3	28.8	29.4	42.4	43.1	43.8
5576	Raichur	Manvi	Manvi	28.9	29.6	30.6	41.7	42.6	42.9
5582	Raichur	Maski	Balganur	26.7	27.4	27.7	42.0	42.6	43.0
5586	Raichur	Maski	Gudadur	26.7	27.2	27.7	40.7	41.7	42.5
5589	Raichur	Maski	Halapur	26.8	27.6	27.7	41.9	42.5	42.9
5583	Raichur	Maski	Maski	26.7	27.2	27.7	40.8	41.7	42.5
5587	Raichur	Maski	Pamankallur	26.7	27.2	28.0	41.2	42.0	42.8
5579	Raichur	Raichur	Chandrabanda	28.6	29.4	29.8	42.4	42.9	43.2
5578	Raichur	Raichur	Devarsugur	28.2	29.2	30.0	42.2	42.7	42.9
5581	Raichur	Raichur	Gilasuguru	27.8	28.4	28.7	42.3	42.8	43.6
5564	Raichur	Raichur	Kalmali	28.0	28.4	29.1	42.3	42.9	43.8
387	Raichur	Raichur	Raichur_1	27.7	28.3	28.6	41.9	42.8	43.3
5580	Raichur	Raichur	Yergara	27.7	28.2	28.7	41.7	42.6	43.3
5584	Raichur	Sindhanur	Badarli	26.1	26.7	27.4	41.5	42.4	43.5
5570	Raichur	Sindhanur	Gorebal	26.2	27.1	27.5	41.5	42.3	42.5
5569	Raichur	Sindhanur	Gunjihalli	26.2	26.9	27.5	41.3	41.8	42.2
5573	Raichur	Sindhanur	Hadganhal	26.9	27.7	28.1	41.8	42.5	43.5
5571	Raichur	Sindhanur	Huda	26.6	27.2	27.5	41.5	42.0	42.3
5590	Raichur	Sindhanur	Jalihali	27.1	27.9	28.5	41.9	42.4	42.9
5591	Raichur	Sindhanur	Jawalgeri	26.8	27.5	28.1	42.2	42.7	43.5
5585	Raichur	Sindhanur	Kunatgi	25.5	26.4	27.0	41.9	42.2	42.4
5572	Raichur	Sindhanur	Salgundi	26.6	27.4	27.7	41.8	42.2	43.5
519	Raichur	Sindhanur	Sindhanur_1	25.5	26.2	26.5	42.3	42.7	43.4
5568	Raichur	Sindhanur	Turvihal	26.6	27.1	27.6	41.2	41.8	42.2
5574	Raichur	Sindhanur	Walkamdinni	27.0	27.8	28.5	41.9	42.3	42.5
5559	Raichur	Sirivara	Kallur	28.1	28.5	29.1	42.4	43.2	43.8
5566	Raichur	Sirivara	Kavital	27.2	27.9	28.6	42.0	42.5	42.8
5588	Raichur	Sirivara	Mallat	27.8	28.4	28.8	42.2	42.7	43.1
5565	Raichur	Sirivara	Sirvar	27.2	27.8	28.6	42.2	43.0	43.5
3606	Shivamogga	Bhadravathi	Bhadravathi	23.5	23.7	24.1	37.6	38.3	38.6
3581	Shivamogga	Bhadravathi	Holehonnuru (1)	23.6	24.4	24.8	39.8	40.5	41.1
3540	Shivamogga	Bhadravathi	Holehonnuru (3)	23.2	24.3	23.9	39.2	39.7	40.1
3571	Shivamogga	Bhadravathi	Holehonnuru (2)	23.5	24.2	24.8	38.9	39.9	40.0
3611	Shivamogga	Bhadravathi	Kudaligere	23.7	23.8	24.3	38.7	39.1	39.5
471	Shivamogga	Hosanagara	Hosanagar_1	23.9	24.3	25.4	37.6	38.3	38.8
3615	Shivamogga	Hosanagara	Huncha	23.6	24.3	25.4	37.7	38.4	38.8
3577	Shivamogga	Hosanagara	Kerehalli	22.9	23.4	23.8	38.2	38.7	39.4
3753	Shivamogga	Hosanagara	Nagar	24.1	24.3	25.4	37.7	38.4	39.2
3610	Shivamogga	Sagara	Anandapuram	22.8	23.0	23.5	38.1	38.4	38.8
3573	Shivamogga	Sagara	Avinahalli	22.9	23.2	23.8	37.7	38.5	39.1
3622	Shivamogga	Sagara	Baragadde (Barangi)	23.5	23.7	24.2	36.7	37.6	38.3
3576	Shivamogga	Sagara	Karauru	23.3	23.6	26.0	36.9	37.7	38.7

Karnataka State Heat Action Plan 2026 | Annexure 21 – KSNDMC Station-Derived Percentile Thresholds for Heat Event Identification for April

STATION CODE	DISTRICT	TALUK	HOBLI	T_{min}' P_{90}	T_{min}' P_{95}	T_{min}' P_{98}	T_{max}' P_{90}	T_{max}' P_{95}	T_{max}' P_{98}
477	Shivamogga	Sagara	Sagar_1	23.3	23.6	24.1	37.7	38.6	38.8
3607	Shivamogga	Sagara	Talguppa	23.4	23.7	24.1	37.4	38.0	38.7
3612	Shivamogga	Shikaripura	Anjanapura	23.3	23.5	24.0	38.7	39.1	39.3
3617	Shivamogga	Shikaripura	Husuru	23.9	24.5	25.0	38.8	39.2	39.5
3608	Shivamogga	Shikaripura	Thogarasi	23.3	23.6	24.0	38.4	39.0	39.4
3582	Shivamogga	Shikaripura	Udagani (Shiral Koppa)	23.5	23.8	24.2	38.3	38.8	39.5
3567	Shivamogga	Shivamogga	Haranaahalli	23.5	24.0	24.5	39.2	40.2	40.8
3570	Shivamogga	Shivamogga	Holalur (1)	23.1	23.5	23.7	38.8	38.9	39.6
3574	Shivamogga	Shivamogga	Holalur (2)	23.7	24.4	24.8	39.8	40.5	41.1
3585	Shivamogga	Shivamogga	Kumsi	23.1	23.5	24.0	39.1	40.2	40.8
3579	Shivamogga	Shivamogga	Nidige_1_Umbalabailu	23.3	23.9	24.1	38.6	38.9	39.4
3618	Shivamogga	Shivamogga	Nidige_2	23.9	24.2	24.6	39.4	40.0	40.7
630	Shivamogga	Shivamogga	Shimoga_1	24.1	24.3	24.7	39.4	39.8	40.3
3620	Shivamogga	Soraba	Anavatti	23.5	23.7	24.2	39.4	40.1	40.4
3575	Shivamogga	Soraba	Chandragutti	23.2	23.5	24.2	37.8	38.4	39.0
3623	Shivamogga	Soraba	Jade	24.4	25.2	25.9	39.7	40.2	40.6
3624	Shivamogga	Soraba	Kuppagadde	23.2	23.6	24.1	38.7	39.2	39.4
3621	Shivamogga	Soraba	Sorab	23.0	23.5	24.1	38.2	38.9	39.4
3583	Shivamogga	Tirthahalli	Agrahara	23.1	23.7	24.3	36.9	37.8	38.3
3772	Shivamogga	Tirthahalli	Agumbe	23.1	23.5	24.6	36.3	37.0	37.1
3568	Shivamogga	Tirthahalli	Malur	23.4	24.2	24.8	37.5	38.1	38.4
3609	Shivamogga	Tirthahalli	Mandagadde	22.4	22.9	23.2	38.4	39.1	39.5
7673	Tumakuru	Chikkanayakanahalli	Handanakere	23.6	23.9	24.2	38.6	39.2	39.3
7674	Tumakuru	Chikkanayakanahalli	Huliyar	24.5	25.0	25.2	38.9	39.4	39.5
7675	Tumakuru	Chikkanayakanahalli	Kandikere	24.7	25.0	25.2	39.0	39.6	39.8
7676	Tumakuru	Chikkanayakanahalli	Shettikeri	23.2	23.6	24.3	38.7	39.3	39.8
7672	Tumakuru	Gubbi	Chelur	23.2	23.8	24.6	38.6	38.8	39.3
549	Tumakuru	Gubbi	Gubbi_1	22.6	23.1	23.4	38.9	39.5	40.0
7669	Tumakuru	Gubbi	Kadaba	23.9	24.4	25.1	38.6	39.4	40.0
7670	Tumakuru	Gubbi	Nittur	22.6	23.1	23.5	38.1	38.6	39.3
7651	Tumakuru	Koratagere	Bukkapatna	25.0	25.3	25.8	40.6	40.9	41.2
7657	Tumakuru	Koratagere	Chennarayadurga	23.1	23.5	24.0	38.2	39.0	39.4
7659	Tumakuru	Koratagere	Holanahalli	25.3	25.5	25.6	39.0	39.6	39.8
7658	Tumakuru	Koratagere	Kolala	23.4	23.9	24.1	38.1	38.4	38.7
7650	Tumakuru	Kunigal	Amrutur	23.6	24.1	24.3	38.2	38.8	39.2
7666	Tumakuru	Kunigal	Huliyurudurga	24.2	24.4	24.8	38.9	39.1	39.2
7668	Tumakuru	Kunigal	Huttariduraga	23.2	23.5	24.1	38.2	38.7	39.1
7667	Tumakuru	Kunigal	Kottagere	22.7	23.4	24.2	37.8	38.0	38.2
7689	Tumakuru	Kunigal	Yedeyur	23.5	23.7	23.9	38.2	38.9	39.5
7681	Tumakuru	Madhugiri	Dodderi	24.7	25.1	25.4	38.6	38.9	39.2
7677	Tumakuru	Madhugiri	Itakadibbanahalli	25.7	26.1	26.5	40.4	40.7	41.2
7678	Tumakuru	Madhugiri	Kodigenahalli	25.8	26.1	26.6	38.8	39.2	39.5
3746	Tumakuru	Madhugiri	Madhugiri	24.6	25.0	25.5	38.4	38.7	38.9
7679	Tumakuru	Madhugiri	Midigesi	26.1	26.4	26.8	39.3	39.6	40.3
7680	Tumakuru	Madhugiri	Puravara	25.6	26.1	26.8	39.4	40.0	40.6
7655	Tumakuru	Pavagada	Nagalamadike	26.8	27.2	27.9	41.3	41.9	42.2
7688	Tumakuru	Pavagada	Yellappanayakana Hosakote	26.6	26.8	27.7	40.9	41.2	41.7
7652	Tumakuru	Sira	Hulikunta	25.7	26.0	26.4	40.8	41.1	41.4
7653	Tumakuru	Sira	Kallambella	24.4	24.7	25.2	39.7	40.0	40.5
7660	Tumakuru	Tiptur	Honnnavalli	23.1	23.4	23.7	37.0	37.2	37.5
7662	Tumakuru	Tiptur	Kibbanahalli	23.1	23.9	24.4	37.4	37.9	38.2
7661	Tumakuru	Tiptur	Nonavinakere	23.5	24.3	25.0	38.8	39.4	39.7

Karnataka State Heat Action Plan 2026 | Annexure 21 – KSNDMC Station-Derived Percentile Thresholds for Heat Event Identification for April

STATION CODE	DISTRICT	TALUK	HOBLI	T_{min}' P_{90}	T_{min}' P_{95}	T_{min}' P_{98}	T_{max}' P_{90}	T_{max}' P_{95}	T_{max}' P_{98}
544	Tumakuru	Tiptur	Tiptur_1	22.9	23.4	23.6	36.6	37.0	37.2
7684	Tumakuru	Tumakuru	Bellavi	23.0	23.4	23.9	38.0	38.2	38.6
7687	Tumakuru	Tumakuru	Guluru	23.7	24.1	24.4	38.0	38.6	40.1
7683	Tumakuru	Tumakuru	Hebbur	22.7	23.0	23.2	37.7	38.0	38.6
7685	Tumakuru	Tumakuru	Kora	23.4	23.7	24.1	37.7	37.9	38.2
7686	Tumakuru	Tumakuru	Tumkur	24.1	24.5	25.2	38.0	38.4	40.0
7682	Tumakuru	Tumakuru	Uradigere	22.8	23.3	23.5	37.1	37.6	37.8
7665	Tumakuru	Turuvekere	Dabbegatta	23.2	23.8	24.2	38.3	38.7	38.8
7664	Tumakuru	Turuvekere	Dandinasivara	23.6	23.9	24.5	37.8	38.2	38.8
7663	Tumakuru	Turuvekere	Mayasandra	23.7	24.6	25.1	39.3	40.2	40.7
3730	Udupi	Bramhavara	Kota	26.3	26.7	26.9	35.5	35.6	35.9
3683	Udupi	Bynduru	Baindanuru	27.3	27.9	28.4	35.4	35.6	35.9
3519	Udupi	Kapu	Kapu	26.2	26.6	26.8	35.1	35.5	36.1
3526	Udupi	Karkala	Ajekar	26.1	26.7	27.0	38.2	38.8	39.2
663	Udupi	Karkala	Karkala_1	26.3	26.8	27.0	37.6	38.3	38.9
124	Udupi	Kundapur	Kundapur_1	27.0	27.4	27.6	35.7	35.9	36.2
3522	Udupi	Kundapur	Vandse	26.7	26.8	27.4	35.9	36.2	36.8
3521	Udupi	Udupi	Perdur	25.8	26.2	26.5	34.7	35.0	35.4
337	Udupi	Udupi	Udupi_1	26.5	26.7	27.1	35.0	35.5	35.8
3588	Uttara Kannada	Ankola	Ankola	26.4	27.0	27.6	36.3	36.8	37.5
3557	Uttara Kannada	Ankola	Basagod	26.4	26.8	27.4	35.1	35.6	36.0
3555	Uttara Kannada	Ankola	Belikere (Avarse)	26.1	27.4	28.8	36.3	36.9	37.8
3587	Uttara Kannada	Ankola	Blale	27.0	27.7	28.4	37.5	37.7	38.1
3681	Uttara Kannada	Bhatkal	Mavalli	27.0	27.4	27.9	34.8	35.3	36.2
3703	Uttara Kannada	Dandelli	Dandeli	22.9	23.4	24.2	39.3	40.0	40.7
3682	Uttara Kannada	Haliyal	Haliyal	23.4	23.9	24.3	40.2	40.8	41.1
3680	Uttara Kannada	Haliyal	Murkvad	23.6	24.0	24.7	41.1	41.5	41.9
3677	Uttara Kannada	Haliyal	Sambrani	23.5	24.0	24.5	39.5	40.0	40.7
3589	Uttara Kannada	Honnavar	Honnavar	26.7	27.4	27.7	36.1	36.7	36.9
3597	Uttara Kannada	Honnavar	Mavinakurvei	27.5	28.0	28.2	37.7	38.6	39.7
3601	Uttara Kannada	Karwar	Ghadasaya	25.9	26.7	27.1	38.0	38.5	38.7
3604	Uttara Kannada	Karwar	Kinnar	26.4	26.7	27.3	36.8	37.5	38.3
3598	Uttara Kannada	Karwar	Savantvada	27.1	27.6	28.1	37.4	37.7	38.4
3592	Uttara Kannada	Kumta	Gokarna	27.1	27.4	28.0	35.0	35.4	35.7
3667	Uttara Kannada	Kumta	Kujahalli	26.3	26.9	27.7	38.0	38.8	38.9
628	Uttara Kannada	Kumta	Kumta_1	26.9	27.5	28.0	38.0	38.8	38.9
3603	Uttara Kannada	Kumta	Mirjan	26.2	26.7	27.4	38.0	38.8	38.9
3704	Uttara Kannada	Mundgod	Pala	23.9	24.6	25.1	40.0	40.5	41.1
3666	Uttara Kannada	Siddapur	Kodkani	24.2	25.4	26.2	37.6	38.7	39.2
380	Uttara Kannada	Siddapur	Siddapur (Kondli)_1	23.3	24.4	25.0	37.5	38.4	40.2
3701	Uttara Kannada	Siddapur	Umbalamani	22.9	23.4	24.2	37.0	37.8	38.4
3657	Uttara Kannada	Sirsi	Hulekal	22.9	23.5	24.5	37.6	38.2	38.7
3697	Uttara Kannada	Sirsi	Sampakanda (Ammanahalli)	22.8	23.1	23.6	37.3	37.9	38.5
361	Uttara Kannada	Sirsi	Sirsi_1	24.5	25.0	25.6	38.5	39.6	39.6
3673	Uttara Kannada	Supa	Castle Rock	24.3	24.9	25.4	37.5	38.3	39.0
3678	Uttara Kannada	Supa	Kumbarawada	23.3	24.9	25.8	38.2	38.7	39.2
3653	Uttara Kannada	Supa	Supa	24.2	25.0	26.1	39.7	40.2	42.1
3654	Uttara Kannada	Yellapur	Manchikeri	23.6	24.1	24.7	38.2	39.1	39.8
8000	Vijayanagara	Hadagali	Hadagali	25.6	25.9	26.2	42.1	42.6	42.9
7557	Vijayanagara	Hadagali	Hirehadagalli	25.6	26.0	26.1	41.8	42.4	42.7
7558	Vijayanagara	Hadagali	Ittigi	25.3	25.6	26.0	40.4	40.8	41.1
7553	Vijayanagara	Hagaribommanahalli	Hagaribommanahalli	25.6	26.0	26.2	42.3	43.2	43.4

Karnataka State Heat Action Plan 2026 | Annexure 21 – KSNDMC Station-Derived Percentile Thresholds for Heat Event Identification for April

STATION CODE	DISTRICT	TALUK	HOBLI	T_{min}' P_{90}	T_{min}' P_{95}	T_{min}' P_{98}	T_{max}' P_{90}	T_{max}' P_{95}	T_{max}' P_{98}
7555	Vijayanagara	Hagaribommanahalli	Tambarahalli	26.5	27.0	27.6	42.6	43.1	43.4
7569	Vijayanagara	Harappanahalli	Arasikere	25.5	26.1	26.6	40.6	40.9	41.5
7570	Vijayanagara	Harappanahalli	Chigateri	25.7	26.0	26.4	40.8	41.3	41.6
7561	Vijayanagara	Harappanahalli	Telagi	25.2	25.6	26.0	40.6	41.1	41.8
615	Vijayanagara	Hosapete	Hospet_1	26.6	26.9	27.1	41.9	42.4	43.2
7545	Vijayanagara	Hosapete	Kamalapuram	26.8	27.2	27.4	41.6	42.0	42.5
7547	Vijayanagara	Hosapete	Mariyammahalli	26.3	26.7	27.0	42.4	42.9	43.5
7554	Vijayanagara	Kotturu	Kogali	25.5	25.6	25.9	41.3	41.8	42.1
7552	Vijayanagara	Kotturu	Kotturu	25.4	25.8	26.3	40.1	40.7	40.9
7550	Vijayanagara	Kudligi	Gudekote	26.8	27.1	27.5	40.7	41.0	41.3
7551	Vijayanagara	Kudligi	Hosahalli	25.0	25.6	25.8	39.6	39.9	40.5
8002	Vijayanagara	Kudligi	Kudligi_1	24.6	24.9	25.5	41.4	42.0	42.6
8009	Vijayapura	Alamela	Almel	25.5	26.0	27.1	42.5	42.7	43.3
5615	Vijayapura	Babaleshwara	Bobleshwar	25.3	25.8	26.2	40.3	40.9	41.5
5614	Vijayapura	Babaleshwara	Mamdapur	25.7	26.1	26.7	41.8	42.3	43.2
8008	Vijayapura	Basavanabagevadi	Basavanabagevadi	25.5	25.9	26.7	40.6	41.1	41.4
5609	Vijayapura	Basavanabagevadi	Huvin Hippargi	25.1	25.6	26.2	40.0	40.2	40.8
5605	Vijayapura	Chadachana	Chadchan	27.3	28.0	29.1	41.2	41.9	42.5
5608	Vijayapura	Devara Hippargi	Devar Hippargi	27.1	27.7	28.9	42.5	42.8	43.5
5606	Vijayapura	Indi	Ballolli	26.0	26.9	27.7	40.3	40.8	41.3
8006	Vijayapura	Indi	Indi	27.1	28.2	29.9	42.4	42.8	43.3
5613	Vijayapura	Kolhara	Kolhar	25.8	26.3	26.7	40.4	40.7	41.2
5610	Vijayapura	Muddebihal	Dhavalagi	25.9	26.4	26.9	40.7	41.3	41.7
537	Vijayapura	Muddebihal	Muddebihal_1	26.0	26.4	26.8	40.9	41.3	41.6
5611	Vijayapura	Muddebihal	Nalatvad	27.0	27.5	28.5	41.9	42.5	43.1
5607	Vijayapura	Sindgi	Sindgi	26.8	27.7	28.9	42.1	42.5	42.9
5612	Vijayapura	Talikote	Talikota	26.7	27.3	28.5	42.1	42.5	43.0
5616	Vijayapura	Tikota	Tikota	26.5	27.2	27.7	40.5	40.9	41.3
5617	Vijayapura	Vijayapura	Nagathan	26.1	26.8	28.0	41.6	41.9	42.1
8007	Vijayapura	Vijayapura	Vijayapura	26.3	27.0	27.5	39.9	40.2	40.5
5604	Yadgir	Gurumithakala	Gurmatkal	26.8	27.4	28.2	41.7	42.3	42.8
5602	Yadgir	Gurumithakala	Konakal	27.6	27.8	28.5	42.3	42.6	43.0
5593	Yadgir	Hunisigi	Hunasagi	27.1	28.0	28.7	41.9	42.5	42.9
5594	Yadgir	Hunisigi	Kodekal	27.0	27.9	28.3	41.3	42.0	42.7
5597	Yadgir	Shahapur	Doranahlli	27.3	28.1	28.8	42.2	42.7	43.3
5598	Yadgir	Shahapur	Gogi (Gugipet)	26.4	26.6	27.1	41.5	42.1	42.5
5596	Yadgir	Shahapur	Shahapur	27.4	28.0	29.2	42.2	42.7	42.9
8018	Yadgir	Shahapur	Shahapur_1	26.2	26.7	26.9	41.6	42.1	42.6
5595	Yadgir	Shorapur	Kakkeri	27.5	28.5	28.8	41.8	42.5	42.7
5592	Yadgir	Shorapur	Kembhavi	27.1	27.4	28.3	41.5	42.0	42.4
8017	Yadgir	Shorapur	Shorapur	27.2	28.0	28.8	42.1	42.7	42.9
5599	Yadgir	Vadagera	Wadagera	28.0	28.8	29.6	42.2	42.4	42.9
5601	Yadgir	Yadgir	Balichakra	27.0	27.4	27.8	41.7	42.1	42.8
5603	Yadgir	Yadgir	Hattikuni	26.3	26.8	27.5	42.1	42.5	43.1
5600	Yadgir	Yadgir	Saidapur	27.7	28.6	29.2	42.2	42.5	43.5
8016	Yadgir	Yadgir	Yadgir	26.1	26.6	27.5	42.2	42.8	43.1

Annexure 22: KSNDMC Station-Derived Percentile Thresholds for Heat Event Identification for May

T_{max} — Daily maximum temperature. The highest temperature recorded at a station in a given day.

T_{min} — Daily minimum temperature. The lowest temperature recorded at a station in a given day.

P_{90} (90th percentile) — The value below which 90% of the observations fall. Equivalently, exceeded on 10% of days in the reference period.

P_{95} (95th percentile) — Exceeded 5% of days in the reference period.

P_{98} (98th percentile) — Exceeded 2% of days in the reference period.

Time Period – 2017-2022

STATION_CODE	DISTRICT	TALUKNAME	HOBLINAME	T_{min} P_{90}	T_{min} P_{95}	T_{min} P_{98}	T_{max} P_{90}	T_{max} P_{95}	T_{max} P_{98}
5555	Bagalkote	Badami	Badami	25.7	26.1	26.4	39.3	40.1	40.4
5557	Bagalkote	Badami	Kerur	26.2	26.8	27.2	39.9	40.5	40.8
5556	Bagalkote	Badami	Kulgeri	26.0	26.5	26.9	39.7	40.2	40.6
5518	Bagalkote	Bagalkote	Bagalkote	26.7	27.7	28.2	40.3	40.7	41.3
5548	Bagalkote	Bagalkote	Kaladgi	25.8	26.4	27.1	39.9	40.0	40.4
5550	Bagalkote	Bagalkote	Rampura (Sitimani)	27.4	28.1	28.5	40.7	41.4	42.0
5547	Bagalkote	Bilgi	Anagvadi	26.6	27.2	28.0	40.6	41.2	41.7
5520	Bagalkote	Bilgi	Bilgi	27.0	27.5	28.2	40.4	41.3	41.7
5554	Bagalkote	Guledagudda	Guledagudda	26.9	27.3	27.9	40.4	40.7	41.3
5553	Bagalkote	Hungund	Amingarh	26.8	27.6	28.2	40.5	40.9	41.3
428	Bagalkote	Hungund	Hungund_1	26.4	26.7	27.3	40.4	40.8	41.4
5552	Bagalkote	Ilkal	Ilkal	26.9	28.1	29.0	41.4	42.6	42.9
5551	Bagalkote	Ilkal	Karadi	27.1	27.9	28.7	41.6	42.7	43.1
5519	Bagalkote	Jamkhandi	Jamkhandi	25.8	26.5	27.3	40.4	41.2	42.0
5558	Bagalkote	Jamkhandi	Savalagi	25.8	26.5	27.6	41.1	41.6	41.9
5549	Bagalkote	Mudhol	Lokapur	25.6	26.1	26.5	39.5	40.0	40.9
5546	Bagalkote	Mudhol	Mudhol	26.1	26.7	27.3	40.4	41.0	41.6
5545	Bagalkote	Rabakavi Banahatti	Terdal	25.5	25.8	26.5	39.9	40.5	40.7
8003	Ballari	Ballari	Ballari	28.0	28.5	28.9	41.7	42.4	42.8
7540	Ballari	Ballari	Moka	27.6	28.3	28.8	41.6	42.1	42.4
7537	Ballari	Ballari	Rupanagudi	27.8	28.3	28.9	42.3	43.0	43.3
7546	Ballari	Kampli	Kampli	27.3	27.6	27.9	41.5	42.1	42.4
7538	Ballari	Kurugodu	Koluru	28.1	28.5	28.9	42.5	42.8	43.1
7539	Ballari	Kurugodu	Kurugodu	28.0	28.5	28.9	41.9	42.7	42.9
7548	Ballari	Sandur	Choranuru	25.1	25.4	25.6	38.9	39.3	39.6
8001	Ballari	Sandur	Sandur	26.1	26.3	26.6	40.0	41.9	43.0
7549	Ballari	Sandur	Toranagallu	28.4	28.7	29.1	41.6	42.1	42.4
7541	Ballari	Siruguppa	Hachcholli	28.3	28.7	29.2	43.4	43.8	44.1
7542	Ballari	Siruguppa	Karuru	28.1	28.5	28.9	42.0	42.5	42.9
7543	Ballari	Siruguppa	Siruguppa	27.7	28.1	29.0	41.7	42.0	42.6
7544	Ballari	Siruguppa	Tekkalakote	28.4	28.8	29.1	42.4	42.8	43.3
5642	Belagavi	Athani	Anantapur	25.1	25.5	26.1	39.9	40.5	41.2
573	Belagavi	Athani	Athani_1	25.4	25.7	26.3	40.5	41.2	41.8
5644	Belagavi	Athani	Telsang	25.4	25.8	26.6	40.9	41.4	41.8
301	Belagavi	Bailhongal	Bailhongal_1	23.7	24.2	24.3	39.4	40.1	40.7

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STATION_CODE	DISTRICT	TALUKNAME	HOBLINAME	T_{min}' P_{90}	T_{min}' P_{95}	T_{min}' P_{98}	T_{max}' P_{90}	T_{max}' P_{95}	T_{max}' P_{98}
5633	Belagavi	Bailhongal	Nesargi	23.6	24.2	24.5	39.2	39.9	40.9
8301	Belagavi	Belagavi	Basavanna Kolla_Kptcl	20.8	20.9	21.0	32.2	32.6	32.8
5516	Belagavi	Belagavi	Belgaum	23.7	24.0	24.6	37.5	38.3	39.2
5646	Belagavi	Belagavi	Hirebagevadi (Chandur)	23.7	24.0	24.3	38.6	39.6	40.6
5645	Belagavi	Belagavi	Kakti	23.7	23.9	24.5	37.9	38.4	39.2
8303	Belagavi	Belagavi	Kanabargi_Hrs	21.1	21.1	21.2	32.1	32.2	32.3
8304	Belagavi	Belagavi	Mache_Kptcl	21.3	21.6	21.8	31.1	31.4	31.6
8300	Belagavi	Belagavi	Nehru Nagar_Kptcl	21.0	21.0	21.1	31.9	32.0	32.1
8302	Belagavi	Belagavi	Ramteerth Nagar_Kptcl	21.3	21.4	21.5	32.1	32.2	32.3
5649	Belagavi	Belagavi	Uchagaon	23.9	24.6	25.0	37.9	38.8	39.5
8305	Belagavi	Belagavi	Udyambag_Keb	21.6	21.8	21.9	30.9	30.9	31.0
8306	Belagavi	Belagavi	Vadagoan_Kptcl	21.9	22.0	22.0	31.7	31.8	31.9
5626	Belagavi	Chikkodi	Chikkodi	25.4	25.8	26.1	39.9	40.6	41.1
5628	Belagavi	Chikkodi	Nagaramonnali	25.0	25.6	25.9	39.6	40.2	40.9
5625	Belagavi	Chikkodi	Sadalgi	25.0	25.2	25.6	39.3	39.9	40.3
5632	Belagavi	Gokak	Gokak	26.5	26.8	27.5	40.3	40.9	41.4
5634	Belagavi	Gokak	Kowjalgi	25.3	25.6	25.9	39.7	40.1	40.8
576	Belagavi	Hukkeri	Hukkeri_1	24.0	24.4	24.7	38.9	39.5	40.1
5629	Belagavi	Hukkeri	Sanakeswar	24.5	24.9	25.6	39.8	41.1	41.6
5630	Belagavi	Hukkeri	Yamkanmardi	23.5	23.7	24.4	38.0	38.6	39.7
5643	Belagavi	Kagavada	Kagwad	25.4	25.7	26.2	40.4	40.8	41.2
5647	Belagavi	Khanapur	Bidi	24.8	25.2	25.7	38.1	38.7	39.3
5648	Belagavi	Khanapur	Gunji	25.0	25.2	25.6	37.5	38.2	39.2
5650	Belagavi	Khanapur	Jamboti	23.8	24.3	24.7	37.4	38.1	38.4
303	Belagavi	Khanapur	Khanapur	23.9	24.3	24.7	38.1	38.7	39.4
5638	Belagavi	Kitthuru	Hirenadihalli	23.7	24.3	25.1	38.0	38.6	39.6
5631	Belagavi	Mudalagi	Arbhavi	25.0	25.4	25.7	39.6	40.4	40.9
5627	Belagavi	Nippani	Nipani	25.8	26.3	26.5	40.4	41.1	41.5
5624	Belagavi	Raibagh	Kudchi	25.6	25.9	26.2	40.8	41.2	41.8
318	Belagavi	Raibagh	Raibagh	24.8	25.4	25.7	40.9	41.5	42.0
5640	Belagavi	Ramadurga	Bidki (K.Chandaragi)	25.4	26.1	26.8	39.6	40.2	41.1
5639	Belagavi	Ramadurga	Katkol	26.1	26.6	26.9	39.4	39.8	40.7
5641	Belagavi	Ramadurga	Mudkavi	26.1	26.4	26.8	39.7	40.2	41.1
5517	Belagavi	Ramadurga	Ramdurg	26.3	26.6	26.9	39.7	40.2	40.8
324	Belagavi	Soundatti	Badli	24.8	25.2	25.6	39.6	40.6	40.9
5636	Belagavi	Soundatti	Manoli	24.8	25.2	25.6	39.3	40.2	40.9
5637	Belagavi	Soundatti	Muragoda	24.2	24.5	24.9	37.6	38.1	39.0
5635	Belagavi	Yaragatti	Yargatti	24.4	24.8	25.2	37.8	38.6	39.0
3561	Bengaluru Rural	Devanahalli	Channarayapatna	22.8	23.5	24.3	36.0	36.7	37.4
375	Bengaluru Rural	Devanahalli	Devanahalli_1	22.7	23.3	24.2	35.6	36.3	36.9
3523	Bengaluru Rural	Devanahalli	Kundana	22.5	23.1	23.6	35.8	36.6	36.9
3563	Bengaluru Rural	Devanahalli	Vijaypura	23.2	24.1	24.6	36.9	37.6	38.2
3515	Bengaluru Rural	Doddaballapura	Dodballapur	22.3	22.9	23.5	36.2	36.8	37.3
3503	Bengaluru Rural	Doddaballapura	Dodbelavangala	21.9	22.5	23.0	35.3	35.7	36.3
3514	Bengaluru Rural	Doddaballapura	Madhure (Kanasawadi)	22.4	22.8	23.3	35.4	35.8	36.1
3765	Bengaluru Rural	Doddaballapura	Sasalu	23.4	23.8	24.3	37.0	37.5	37.7
3518	Bengaluru Rural	Doddaballapura	Tubagere	22.3	23.1	23.3	36.7	37.0	37.6
3549	Bengaluru Rural	Hosakote	Anugondhalli	23.1	23.6	23.9	36.8	37.3	38.0
3560	Bengaluru Rural	Hosakote	Jadigenhalli	22.2	22.5	23.1	35.6	35.9	36.4
3552	Bengaluru Rural	Hosakote	Nandagudi	22.5	22.9	23.6	35.5	35.9	36.1
3562	Bengaluru Rural	Hosakote	Sulibele	22.4	22.9	23.5	35.8	36.3	36.9
686	Bengaluru Rural	Nelamangala	Nelamangala_1	22.9	23.2	23.6	35.7	36.3	36.8

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3516	Bengaluru Rural	Nelamangala	Sampura	22.4	22.8	23.1	35.2	35.8	36.2
3517	Bengaluru Rural	Nelamangala	Tyamagondal	22.9	23.4	23.7	35.8	36.5	36.7
7634	Bengaluru South	Channapatna	Channapatna	24.5	25.0	25.3	38.2	39.1	40.4
7649	Bengaluru South	Channapatna	Hakkuru Hosahalli (Virupakshapu	24.1	24.5	25.0	38.2	39.1	39.5
7636	Bengaluru South	Channapatna	Mallur	24.3	24.9	25.1	37.8	39.1	40.4
10202	Bengaluru South	Harohalli	Bnp-Bugurikallu	24.5	25.1	25.6	37.5	37.6	37.7
7635	Bengaluru South	Harohalli	Dodda Maralavadi	23.7	24.3	24.8	36.9	37.7	39.1
7637	Bengaluru South	Harohalli	Harohalli	24.4	24.8	25.9	37.1	37.8	38.1
7639	Bengaluru South	Kanakapura	Kodihalli	23.9	24.5	25.0	37.2	38.1	38.8
7645	Bengaluru South	Kanakapura	Satnuru	25.3	25.8	26.5	38.7	39.6	40.1
7648	Bengaluru South	Kanakapura	Uyyamballi	25.1	25.7	26.0	37.9	38.8	39.6
7642	Bengaluru South	Magadi	Chandurayanahalli	23.4	24.1	24.8	37.9	38.5	39.5
7641	Bengaluru South	Magadi	Kuduru	23.7	24.3	24.5	36.9	37.6	38.0
7643	Bengaluru South	Magadi	Magadi	23.4	24.0	24.7	36.8	37.9	38.6
7646	Bengaluru South	Magadi	Solur	24.4	25.0	25.6	38.1	38.6	39.1
7647	Bengaluru South	Magadi	Tippasanara	22.8	23.1	24.0	37.6	38.3	38.7
7640	Bengaluru South	Ramanagara	Kutgallu	25.0	25.4	26.1	38.5	39.2	40.1
7633	Bengaluru South	Ramanagara	Mayaganahalli	24.0	24.7	24.8	37.5	38.5	39.0
7644	Bengaluru South	Ramanagara	Ramanagara	25.0	25.4	26.3	37.8	38.5	39.0
672	Bengaluru Urban	Anekal	Anekal_1	22.3	23.0	23.5	35.6	36.1	36.5
3756	Bengaluru Urban	Anekal	Bommasandra	23.0	23.2	24.0	36.3	36.7	37.5
3764	Bengaluru Urban	Anekal	Sarjapur	23.1	23.7	24.4	36.2	36.4	36.7
3524	Bengaluru Urban	Bengaluru East	Hagaduru	23.1	23.6	24.0	36.3	37.0	37.9
3755	Bengaluru Urban	Bengaluru East	Kadugodi	23.5	23.7	24.2	37.5	38.0	38.1
3706	Bengaluru Urban	Bengaluru North	Yashavanthapur	23.5	23.7	24.0	35.6	36.0	36.7
3754	Bengaluru Urban	Bengaluru South	B.T.M.Layout	23.5	23.7	24.1	36.0	36.2	36.5
3731	Bengaluru Urban	Bengaluru South	Bommanahalli_Konanakunte	23.5	24.1	25.3	36.1	37.1	38.0
10201	Bengaluru Urban	Bengaluru South	Doresanipalya(Empri)	23.8	23.8	23.9	34.5	34.7	35.3
3520	Bengaluru Urban	Bengaluru South	Kg Halli (Gonipura)	22.8	23.3	23.7	36.7	37.4	37.9
3700	Bengaluru Urban	Bengaluru South	Tavarekere	22.6	23.1	24.1	36.3	37.4	37.9
3672	Bengaluru Urban	Bengaluru South	Uttarahalli	22.9	23.4	23.7	35.4	36.3	36.4
3743	Bengaluru Urban	Yelahanka	Hesaragatta	22.9	23.2	23.7	35.7	36.4	36.8
765	Bengaluru Urban	Yelahanka	Jala	23.7	24.1	24.4	36.1	36.8	37.4
7002	Bengaluru Urban	Yelahanka	Ksndmc-Geoedge_1	23.1	23.5	23.9	35.7	36.1	36.6
3742	Bengaluru Urban	Yelahanka	Rajanukunte	22.4	23.0	23.6	36.3	36.9	37.6
1050	Bengaluru Urban	Yelahanka	Yelankha (Ksndmc)	22.3	22.4	22.9	35.6	36.3	36.4
703	Bidar	Aurad	Aurad_1	29.5	29.9	30.6	42.7	43.3	43.8
5662	Bidar	Aurad	Chintaki	29.9	30.5	31.1	42.4	43.1	43.4
5664	Bidar	Aurad	Santpur	30.3	30.5	30.9	43.2	43.9	44.4
488	Bidar	Basavakalyan	Basavakalyan_1	27.4	27.9	28.1	43.2	43.7	44.2
5673	Bidar	Basavakalyan	Kohinoor	26.8	27.5	27.9	40.3	41.6	42.7
5672	Bidar	Basavakalyan	Matala	28.3	28.7	29.2	41.3	42.0	42.2
5674	Bidar	Basavakalyan	Mudabi	28.3	28.8	29.2	41.7	42.5	42.9
5670	Bidar	Basavakalyan	Rajeshwar	28.7	29.4	30.0	41.3	41.7	42.1
5657	Bidar	Bhalki	Bhalki	28.6	29.1	29.4	41.9	42.6	43.0
5658	Bidar	Bhalki	Halburga	28.0	28.8	29.4	40.8	42.0	42.8
5656	Bidar	Bhalki	Khatak Chincholi	29.5	29.9	30.2	42.8	43.3	43.8
5659	Bidar	Bhalki	Lakangaon	29.1	29.6	30.1	42.7	43.0	43.8
8005	Bidar	Bhalki	Nittur Buzurg	28.2	29.1	29.5	43.0	43.4	44.0
5676	Bidar	Bhalki	Saigaon	27.2	27.9	28.4	40.1	40.4	41.4

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5654	Bidar	Bidar	Bagadhal	29.4	30.0	30.3	43.0	43.5	43.7
5666	Bidar	Bidar	Bidar	29.4	29.9	30.3	42.0	42.3	42.5
5667	Bidar	Bidar	Bidar South (Halladakere)	30.2	30.4	31.0	42.2	42.7	43.2
5665	Bidar	Bidar	Janwada	28.1	28.7	29.5	40.7	41.5	42.6
5668	Bidar	Bidar	Kamthana	29.6	30.0	30.3	41.7	42.4	43.2
5669	Bidar	Bidar	Manalli	27.1	28.1	28.9	41.2	41.5	41.6
5653	Bidar	Chittaguppa	Bhimalkhed	27.9	28.7	28.9	41.6	42.0	42.3
5651	Bidar	Chittaguppa	Chitgoppa	29.0	29.6	30.0	41.8	42.4	43.0
5652	Bidar	Chittaguppa	Nirna	29.6	30.1	30.7	43.0	43.6	43.9
5675	Bidar	Hulasuru	Hulsur	28.4	28.7	29.0	40.5	41.0	41.5
5671	Bidar	Humnabad	Dubalgundi	28.8	29.3	29.8	41.7	42.4	42.8
5655	Bidar	Humnabad	Hallikhed	28.3	29.1	29.5	42.6	43.0	43.5
8004	Bidar	Humnabad	Humnabad	27.6	28.3	28.6	41.9	42.6	42.8
5661	Bidar	Kamalanagara	Dabaka	29.6	29.8	30.6	42.3	42.9	43.3
5660	Bidar	Kamalanagara	Kamalnagar	29.8	30.4	30.8	42.9	43.2	44.0
5663	Bidar	Kamalanagara	Thanakushanur	28.9	29.5	30.3	41.9	42.4	43.1
746	Chamarajanagara	Chamarajanagara	Chamarajanagar	22.4	23.0	23.5	36.7	37.4	37.9
214	Chamarajanagara	Chamarajanagara	Chandakavadi	22.4	23.1	23.5	36.5	37.0	37.6
234	Chamarajanagara	Chamarajanagara	Haradanhalli	22.6	23.1	23.6	36.1	37.0	37.9
266	Chamarajanagara	Chamarajanagara	Harve	22.3	22.5	22.9	35.0	35.7	36.3
520	Chamarajanagara	Chamarajanagara	Santemarahalli	23.1	23.6	24.2	36.3	36.5	37.0
744	Chamarajanagara	Gundlupet	Begur	22.7	23.1	23.2	36.0	36.7	37.5
262	Chamarajanagara	Gundlupet	Gundlupet	22.2	22.3	22.9	35.4	36.2	36.5
518	Chamarajanagara	Gundlupet	Terakanambi	22.1	22.5	23.3	35.7	36.2	36.3
511	Chamarajanagara	Hanur	Hanur	23.5	24.1	24.2	37.0	37.5	38.0
297	Chamarajanagara	Hanur	Lokkanahalli	23.2	23.9	24.2	37.3	38.0	38.7
907	Chamarajanagara	Hanur	Ramapura	23.6	24.1	24.5	36.8	37.3	38.0
296	Chamarajanagara	Kollegal	Kollegal	23.2	23.6	24.3	36.9	38.1	38.8
261	Chamarajanagara	Kollegal	Palya	23.3	23.5	23.9	35.8	36.3	37.0
2191	Chamarajanagara	Yelandur	Agara (Br Hills)	22.5	23.3	23.8	36.8	37.4	37.8
3614	Chikkaballapura	Bagepalli	Bagepalli	25.4	25.7	26.3	38.5	39.0	39.6
3663	Chikkaballapura	Bagepalli	Chelur	24.8	25.2	26.2	38.9	39.5	39.9
3572	Chikkaballapura	Bagepalli	Guluru	26.0	26.5	27.0	38.7	39.1	39.6
3640	Chikkaballapura	Bagepalli	Mittemari	25.6	26.1	26.4	38.7	39.1	39.4
3638	Chikkaballapura	Bagepalli	Pathapalya	25.1	25.5	26.1	38.1	38.8	39.3
3543	Chikkaballapura	Chikkaballapura	Chikkabalapura	23.8	24.2	24.6	36.9	37.9	38.1
3536	Chikkaballapura	Chikkaballapura	Mandikal	24.1	24.8	25.2	37.3	38.0	38.4
3752	Chikkaballapura	Chikkaballapura	Nandi	24.5	24.8	25.3	37.4	38.1	38.5
3679	Chikkaballapura	Chintamani	Chilakalanerpu	24.5	24.9	25.5	38.9	39.3	39.8
3655	Chikkaballapura	Chintamani	Chintamani	23.5	23.7	24.3	39.1	39.7	40.3
3525	Chikkaballapura	Chintamani	Iragampalli (Munganahalli)	24.2	24.8	25.2	38.7	39.0	39.4
3584	Chikkaballapura	Chintamani	Kaiwara	23.6	23.8	24.4	39.1	39.7	40.3
3633	Chikkaballapura	Chintamani	Murugamale (Chelmakate)	23.0	23.6	24.2	37.1	37.6	38.2
3538	Chikkaballapura	Gauribidanur	D.Palya	24.4	25.0	25.3	38.6	39.2	39.3
3541	Chikkaballapura	Gauribidanur	Gauribidanur	23.9	24.6	25.1	38.3	39.1	39.3
7654	Chikkaballapura	Gauribidanur	Gowdagere	25.7	26.1	26.3	39.2	39.6	40.3
3531	Chikkaballapura	Gauribidanur	Hosur	24.5	25.2	25.5	38.5	39.1	39.6
3551	Chikkaballapura	Gauribidanur	Manchenahalli	24.3	24.8	25.6	38.5	38.9	39.2
3542	Chikkaballapura	Gauribidanur	Nagaragere	25.1	25.9	26.2	38.7	39.2	39.7
3544	Chikkaballapura	Gauribidanur	Tondebavi	24.4	24.8	25.3	38.5	39.0	39.5
3535	Chikkaballapura	Gudibanda	Gudibanda	24.9	25.5	25.7	37.6	38.1	38.3
3767	Chikkaballapura	Gudibanda	Somenahalli	24.4	24.9	25.5	38.4	39.0	39.9

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3695	Chikkaballapura	Sidlaghatta	Bashattahalli	24.1	24.6	24.9	37.8	38.3	38.7
3545	Chikkaballapura	Sidlaghatta	Jangamakote	22.9	23.7	24.3	36.2	37.3	38.0
3645	Chikkaballapura	Sidlaghatta	Sadali	24.2	24.8	25.2	37.8	38.4	38.8
3539	Chikkaballapura	Sidlaghatta	Sidlaghatta	23.0	23.3	23.7	37.1	37.8	38.3
3556	Chikkamagaluru	Ajjampura	Ajjampur	23.1	23.7	24.2	37.1	37.6	38.1
3766	Chikkamagaluru	Ajjampura	Chowlahiriyur	23.7	23.9	24.2	37.7	38.2	38.6
3565	Chikkamagaluru	Ajjampura	Shivani	22.9	23.2	23.5	36.9	37.6	38.2
3613	Chikkamagaluru	Chikkamagaluru	Aldur	20.6	21.1	21.8	33.8	34.5	35.7
3735	Chikkamagaluru	Chikkamagaluru	Amble	21.6	21.9	22.2	34.7	35.1	35.6
659	Chikkamagaluru	Chikkamagaluru	Chickmagalur_1	21.9	22.5	22.9	35.2	36.0	36.3
3559	Chikkamagaluru	Chikkamagaluru	Kalasapur	22.6	22.8	23.4	36.3	36.8	37.3
3578	Chikkamagaluru	Chikkamagaluru	Lakya	22.3	22.5	22.7	35.7	36.0	36.4
3684	Chikkamagaluru	Chikkamagaluru	Sangmeswrpet (Khandya)	20.5	20.9	21.2	34.0	34.7	35.0
3664	Chikkamagaluru	Chikkamagaluru	Vasthare	20.6	21.1	21.7	33.6	34.4	35.7
3554	Chikkamagaluru	Kadur	Birur	23.1	23.3	23.6	36.6	37.2	37.4
3627	Chikkamagaluru	Kadur	Hirenalluru	22.9	23.5	24.2	37.2	38.0	38.2
638	Chikkamagaluru	Kadur	Kadur_1	23.0	23.3	23.5	37.1	37.8	38.4
3546	Chikkamagaluru	Kadur	Panchanahalli	23.4	23.7	24.0	37.0	37.8	38.1
3548	Chikkamagaluru	Kadur	Sakkarepatna	22.3	22.6	23.0	36.8	37.3	37.7
3547	Chikkamagaluru	Kadur	Shingatagere	23.3	23.6	23.8	36.8	37.4	37.7
3665	Chikkamagaluru	Kadur	Yagati	24.0	24.3	24.5	37.5	37.9	38.1
3662	Chikkamagaluru	Kalasa	Kalasa	22.9	23.5	24.3	34.8	35.2	36.0
3650	Chikkamagaluru	Koppa	Hariharpur	23.1	23.7	24.3	36.9	38.0	38.8
658	Chikkamagaluru	Koppa	Koppa_1	23.7	23.9	24.4	37.3	38.1	38.8
3639	Chikkamagaluru	Koppa	Meguda (Jayapur)	22.7	23.2	24.8	36.3	37.0	38.0
3632	Chikkamagaluru	Mudigere	Bankal	21.1	21.5	21.8	31.8	32.4	32.9
3648	Chikkamagaluru	Mudigere	Gonibidu	21.3	21.6	21.8	33.6	34.6	35.1
3629	Chikkamagaluru	Mudigere	Javali	20.9	21.4	21.7	32.6	33.7	35.0
3649	Chikkamagaluru	Narasimharajapura	Balehonnur	22.2	22.5	22.9	35.1	36.2	36.8
690	Chikkamagaluru	Narasimharajapura	Narasimharajapur_1	22.8	23.1	23.7	35.7	36.8	37.1
3691	Chikkamagaluru	Sringeri	Kigga	23.2	23.5	24.1	36.3	36.9	37.5
736	Chikkamagaluru	Sringeri	Sringeri_1	22.8	23.2	23.6	36.3	36.9	37.5
3564	Chikkamagaluru	Tarikere	Amrutapur	22.9	23.1	23.5	36.9	37.7	38.3
10200	Chikkamagaluru	Tarikere	Kemmannugundi	22.7	23.0	23.2	34.8	35.3	36.0
3625	Chikkamagaluru	Tarikere	Lakavalli	23.8	24.2	24.3	37.5	38.2	38.7
3553	Chikkamagaluru	Tarikere	Lingadahalli	23.4	23.7	23.9	35.5	36.4	37.0
679	Chikkamagaluru	Tarikere	Tarikere_1	22.6	23.1	23.2	36.3	37.0	37.6
7522	Chitradurga	Challakere	Challakere	26.4	26.7	27.5	40.1	40.7	41.7
7521	Chitradurga	Challakere	Parasurampura	26.4	26.7	27.0	39.7	40.4	40.8
7523	Chitradurga	Challakere	Thalku	25.7	26.0	26.5	39.4	40.2	41.3
7526	Chitradurga	Chitradurga	Bharmasagara	24.8	25.3	25.7	37.8	38.8	39.9
462	Chitradurga	Chitradurga	Chitradurga_1	24.2	24.5	24.6	38.2	38.8	39.0
1044	Chitradurga	Chitradurga	Hgml-Ingaldhal_1	24.4	24.9	25.0	38.3	38.8	39.0
7524	Chitradurga	Chitradurga	Hire Guntanur	24.5	24.7	24.8	38.3	39.0	39.6
7525	Chitradurga	Chitradurga	Turuvvanur	24.4	24.7	24.9	38.7	39.2	39.5
7528	Chitradurga	Hiriyur	Aymangala	25.4	25.7	26.1	39.1	39.7	39.9
7529	Chitradurga	Hiriyur	Dharmapura	25.4	26.2	26.4	38.4	38.8	39.3
145	Chitradurga	Hiriyur	Hiriyur_1	25.4	25.7	26.0	39.5	41.1	41.9
7530	Chitradurga	Hiriyur	Javanagondanahalli	26.4	27.0	27.6	40.3	40.8	41.1
7534	Chitradurga	Holalkere	BharmanaiKANadurga	24.7	25.6	26.7	37.9	39.0	39.5
7535	Chitradurga	Holalkere	Ramagiri	24.4	24.8	25.1	37.3	37.9	38.7
7536	Chitradurga	Holalkere	Talya	25.0	25.3	25.8	38.1	38.8	39.2

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152	Chitradurga	Hosadurga	Hosdurga_1	24.1	24.6	25.2	38.1	38.5	39.4
7533	Chitradurga	Hosadurga	Madadhakeri	24.2	24.5	24.9	37.5	38.1	38.6
7532	Chitradurga	Hosadurga	Mathodu	24.6	25.2	25.5	38.7	39.4	40.0
7531	Chitradurga	Hosadurga	Srirampura	24.5	24.8	25.0	38.3	38.8	39.5
7527	Chitradurga	Molakalmuru	Molakalmuru	26.4	27.2	27.6	39.3	39.7	40.4
508	Dakshina Kannada	Bantwal	Bantwal	26.4	26.9	27.3	36.9	37.5	39.1
3728	Dakshina Kannada	Bantwal	Pane Mangalore	26.7	26.9	27.4	37.2	38.2	39.1
3760	Dakshina Kannada	Bantwal	Vitla	26.1	26.7	27.4	37.0	37.7	38.3
509	Dakshina Kannada	Beltangadi	Beltangadi	25.6	26.2	26.8	37.7	38.4	39.1
3626	Dakshina Kannada	Beltangadi	Kokkada	25.6	26.2	26.5	37.5	37.9	38.9
3741	Dakshina Kannada	Beltangadi	Venur	25.6	26.2	26.8	37.5	38.4	39.2
3670	Dakshina Kannada	Kadaba	Kadaba	25.5	26.1	26.2	37.2	37.8	38.7
3661	Dakshina Kannada	Mangaluru	Gurpur	26.6	27.0	27.4	36.9	37.4	39.1
510	Dakshina Kannada	Mangaluru	Mangalore (A)	27.5	28.0	28.7	35.6	36.7	38.6
1051	Dakshina Kannada	Mangaluru	Pilikula	26.8	27.4	27.6	35.6	36.5	37.7
1052	Dakshina Kannada	Mangaluru	Surathkal	27.6	28.1	28.8	35.6	35.7	36.3
3685	Dakshina Kannada	Mudabidri	Mudbidri	26.7	27.0	27.4	36.2	36.8	37.6
3671	Dakshina Kannada	Mulki	Mulki	27.4	28.0	28.3	35.6	36.3	37.3
235	Dakshina Kannada	Puttur	Puttur	26.1	26.2	26.7	38.2	39.2	40.7
3634	Dakshina Kannada	Puttur	Uppinangadi	26.0	26.1	26.7	38.0	39.0	40.7
3718	Dakshina Kannada	Sulya	Mandekolu	25.6	26.1	26.3	37.4	37.8	38.7
3732	Dakshina Kannada	Ullala	Mangalore (B)	27.4	27.9	28.1	35.7	37.0	38.6
7560	Davanagere	Channagiri	Basavapatna (2) Tyavanagi	26.5	27.0	27.4	39.5	40.2	40.9
7571	Davanagere	Channagiri	Channagiri	24.0	24.3	24.8	37.1	37.7	38.3
7572	Davanagere	Channagiri	Sante Bennur (1)	25.4	25.9	26.2	38.3	39.2	39.9
7559	Davanagere	Channagiri	Santebannur (2)Devarahalli	26.1	26.5	27.1	39.2	40.4	40.9
7573	Davanagere	Channagiri	Ubrani	24.3	24.8	25.3	38.1	38.8	39.6
7564	Davanagere	Davanagere	Anogodu	24.8	25.2	25.5	38.2	38.7	39.7
207	Davanagere	Davanagere	Davanagere	25.5	26.8	27.3	39.4	40.0	40.5
7565	Davanagere	Davanagere	Mayakonda	24.7	25.3	25.5	38.6	39.0	40.0
436	Davanagere	Harihara	Harihar_1	24.7	24.9	25.0	39.5	40.2	40.8
7563	Davanagere	Harihara	Malebennur	25.2	25.7	26.8	39.0	40.0	40.9
7562	Davanagere	Honnali	Govinakovi (2)	25.1	25.3	25.7	38.5	39.1	39.5
438	Davanagere	Honnali	Honnali_1	25.3	25.7	25.9	39.6	40.3	41.1
7568	Davanagere	Honnali	Sasavehalli (1)	24.7	24.9	25.1	38.5	38.9	39.4
7566	Davanagere	Honnali	Sasvehalli-2 (Kunduru)	26.0	26.3	27.4	39.5	40.5	41.4
7574	Davanagere	Jagalur	Bilichodu	25.5	26.1	26.5	39.3	40.0	40.5
7576	Davanagere	Jagalur	Sokke	25.8	26.1	26.5	39.8	40.3	40.7
7575	Davanagere	Nyamati	Belagutti	24.8	25.1	25.4	38.3	39.2	39.9
7567	Davanagere	Nyamati	Govinakovi (1)	25.1	25.7	26.1	38.5	39.0	39.3
3722	Dharwad	Alnavara	Alnavar	24.1	24.3	24.9	39.5	40.0	40.9
3724	Dharwad	Annigeri	Annigeri	23.9	24.2	24.8	40.0	40.4	40.9
3725	Dharwad	Dharwad	Aminbhavi	23.3	23.5	24.2	38.8	39.3	39.6
3709	Dharwad	Dharwad	Dharwad	23.2	23.7	23.9	39.3	39.8	40.5
3711	Dharwad	Dharwad	Uppinabetageri	23.5	23.9	24.2	39.2	39.5	40.1
3719	Dharwad	Hubballi	Chabbi	23.6	24.0	24.2	39.4	40.3	41.0
3707	Dharwad	Hubballi	Shirguppi	24.4	24.9	25.0	39.2	40.4	41.6
5515	Dharwad	Hubballi Nagara	Hubli_1	23.8	24.2	24.5	37.7	38.5	39.6
3723	Dharwad	Kalghatgi	Dummavada	23.7	24.1	24.3	39.4	40.0	40.5
5513	Dharwad	Kalghatgi	Kalghatgi	23.9	24.2	24.4	37.6	38.5	39.5
3699	Dharwad	Kalghatgi	Tabkadhonnihalli	23.8	24.1	24.3	39.1	39.6	40.4
5514	Dharwad	Kundgol	Kundgol	24.8	25.0	25.3	39.0	40.1	40.9

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3696	Dharwad	Kundgol	Saunshi	23.5	23.7	24.0	38.4	39.0	40.0
3717	Dharwad	Navalgund	Morab	23.5	23.7	24.3	38.9	39.4	40.0
114	Dharwad	Navalgund	Navalgund(Morab)_1	25.0	25.7	26.3	41.4	42.1	42.8
5621	Gadag	Gadag	Betageri	25.5	25.8	26.3	39.2	39.5	39.9
5512	Gadag	Gadag	Hulikoti	24.7	25.2	26.0	38.8	39.2	40.0
5622	Gadag	Gajendragad	Nargil	25.6	26.1	26.5	41.1	41.8	42.4
5619	Gadag	Laxmeshwar	Lakshmeshwar	24.6	24.9	25.2	38.1	38.9	39.4
5620	Gadag	Mundargi	Dambal	26.0	26.2	26.5	39.3	39.9	40.3
5509	Gadag	Mundargi	Mundargi	26.1	26.5	27.1	39.3	39.8	40.3
5618	Gadag	Naragund	Konnur	25.3	25.7	26.1	39.0	39.6	39.9
5511	Gadag	Naragund	Naragund	25.8	26.5	26.8	39.7	40.2	41.4
5623	Gadag	Ron	Hole Alur	26.2	26.7	27.4	40.5	41.1	41.9
5510	Gadag	Ron	Ron	25.8	26.2	26.4	40.4	40.9	41.2
5508	Gadag	Shirahatti	Shirahatti	24.9	25.5	25.8	39.2	39.5	40.0
441	Hassan	Alur	Alur_1	21.4	21.7	21.9	34.7	35.2	35.7
3675	Hassan	Alur	Kenchamman Hoskote	21.4	21.5	21.7	33.3	33.9	34.6
3630	Hassan	Alur	Kundur	21.5	21.9	22.2	35.0	36.0	36.6
3643	Hassan	Alur	Palya	21.3	21.6	21.9	35.0	35.7	36.3
228	Hassan	Arasikere	Arasikere_1	23.2	23.5	23.9	36.4	37.0	37.4
3591	Hassan	Arasikere	Banavara	23.1	23.4	23.8	36.6	37.2	37.6
3599	Hassan	Arasikere	Gandasi	23.2	23.6	24.1	35.8	36.2	36.5
3600	Hassan	Arasikere	Javagal	22.8	23.1	23.6	36.7	37.0	37.5
3593	Hassan	Arasikere	Kanakatte	23.8	24.2	24.5	36.3	36.7	37.2
3660	Hassan	Arkalgud	Doddamagge	23.5	23.9	24.2	36.4	37.1	37.3
3659	Hassan	Arkalgud	Konanuru	22.2	22.5	22.8	36.2	36.6	37.2
3641	Hassan	Arkalgud	Mallipatna	22.8	24.3	26.0	35.1	36.2	37.1
3642	Hassan	Arkalgud	Ramanathapura	22.3	22.6	23.0	36.4	37.0	37.5
3635	Hassan	Belur	Arehalli	23.0	24.0	24.4	35.5	36.1	36.7
3689	Hassan	Belur	Bikkodu	22.4	23.0	23.5	35.5	36.1	36.7
3647	Hassan	Belur	Halebeedu	22.5	22.9	23.4	35.6	36.2	36.7
3590	Hassan	Belur	Madihalli	22.5	23.1	23.7	35.4	35.9	36.4
3637	Hassan	Channarayapatna	Baguru	22.0	22.3	22.5	36.0	36.5	36.7
3656	Hassan	Channarayapatna	Channarayapatna	21.9	22.2	22.4	36.3	36.9	37.6
3602	Hassan	Channarayapatna	Dandiganahalli	21.7	22.0	22.2	35.8	36.4	37.1
3631	Hassan	Channarayapatna	Hirisave	23.3	24.0	24.6	36.7	37.0	37.6
3644	Hassan	Channarayapatna	Nuggehalli	22.0	22.4	22.9	36.6	37.1	37.6
3594	Hassan	Hassan	Dudda	21.6	21.9	22.1	35.0	35.7	36.0
3596	Hassan	Hassan	Hassan	21.5	21.6	21.6	35.1	36.3	36.9
10181	Hassan	Hassan	Karekere	21.6	21.8	22.0	36.2	36.3	36.8
3636	Hassan	Hassan	Kattya	22.3	22.4	22.7	35.0	35.8	36.6
3605	Hassan	Hassan	Salagame	23.6	24.0	24.5	35.7	36.3	37.0
3595	Hassan	Hassan	Shantigrama	21.5	21.8	21.8	35.0	35.5	35.7
3646	Hassan	Holenarasipura	Halekote	22.1	22.4	23.1	35.6	36.2	37.2
3698	Hassan	Holenarasipura	Halli Mysore	22.6	23.2	24.2	36.0	37.1	37.7
3676	Hassan	Sakaleshpura	Balegodu	21.3	21.9	22.0	34.5	34.8	35.1
3705	Hassan	Sakaleshpura	Hanbalu	21.4	21.7	21.8	33.4	34.0	34.5
3628	Hassan	Sakaleshpura	Hettur	21.3	21.8	22.6	33.9	34.8	35.0
3651	Hassan	Sakaleshpura	Sakaleshpur	24.3	24.8	25.5	36.2	37.2	37.5
3652	Hassan	Sakaleshpura	Yasur	21.4	21.6	21.8	32.9	33.9	34.5
5507	Haveri	Byadgi	Byadgi	25.4	25.8	26.1	38.0	38.6	39.5
3511	Haveri	Byadgi	Kaginelli	24.7	25.0	25.3	38.0	38.5	39.1
3506	Haveri	Hanagal	Akki Alur	24.8	25.0	25.4	37.7	38.7	39.5

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3505	Haveri	Hanagal	Bommanhalli	24.1	24.8	25.4	39.6	40.1	40.9
5504	Haveri	Hanagal	Hangal	25.0	25.4	25.7	37.3	38.5	38.8
5501	Haveri	Haveri	Devihosur	25.6	26.0	26.3	38.6	39.2	39.9
3501	Haveri	Haveri	Guttal	24.8	25.0	25.5	39.0	39.7	40.7
3508	Haveri	Haveri	Haveri	26.3	26.9	27.3	39.7	40.3	40.8
3509	Haveri	Hirekerur	Haunsbhavi	24.4	24.7	25.2	37.4	38.3	38.6
5505	Haveri	Hirekerur	Hirekerur	24.7	25.1	25.4	36.9	37.2	37.7
3510	Haveri	Ranebennur	Kuppelur	25.0	25.7	26.1	37.9	38.3	38.8
3512	Haveri	Ranebennur	Medleri	25.2	25.7	26.1	38.6	39.3	39.8
5506	Haveri	Ranebennur	Ranebennur	25.7	26.1	26.3	37.7	38.5	39.2
3507	Haveri	Rattehalli	Rattihalli	25.2	26.4	27.1	38.6	40.2	41.0
3502	Haveri	Savanur	Hatti Mattur	25.3	25.8	26.0	39.3	39.9	40.2
5503	Haveri	Savanur	Savanur	25.2	25.7	26.1	39.2	39.6	40.3
3513	Haveri	Shiggaon	Bankapur	25.4	25.9	26.2	39.5	40.2	41.1
3504	Haveri	Shiggaon	Huluguru	24.4	24.8	25.3	38.3	38.9	39.6
5502	Haveri	Shiggaon	Shiggaon	25.4	25.8	26.2	39.0	39.7	40.8
175	Kalaburagi	Afzalpur	Afzalpur_1	27.6	28.3	28.8	43.3	44.0	44.3
5528	Kalaburagi	Afzalpur	Atanur	28.4	29.5	30.6	43.8	44.9	45.5
5529	Kalaburagi	Afzalpur	Karajgi	28.7	29.3	29.9	43.7	44.2	44.9
8011	Kalaburagi	Aland	Aland	28.3	28.9	29.7	43.3	43.5	43.9
5526	Kalaburagi	Aland	Khajuri	28.9	29.7	30.3	42.5	42.9	43.5
5530	Kalaburagi	Aland	Madana Hipparga	29.0	29.8	30.5	43.3	43.8	44.4
5533	Kalaburagi	Aland	Narona	29.0	29.6	29.9	42.8	43.1	43.5
5531	Kalaburagi	Aland	Nimbarga Tanda	29.0	29.6	30.1	42.5	43.0	43.5
5538	Kalaburagi	Chincholi	Ainapur	28.9	29.6	30.3	42.4	42.9	43.4
109	Kalaburagi	Chincholi	Chincholi_1	28.2	28.8	29.6	43.3	43.8	44.4
5537	Kalaburagi	Chincholi	Sulepet	29.3	29.9	30.5	43.1	43.6	43.8
8013	Kalaburagi	Chittapur	Chittapur_1	28.8	29.3	29.8	43.1	44.0	44.8
5541	Kalaburagi	Chittapur	Gundgurti	29.4	30.3	31.0	44.2	44.5	44.9
5536	Kalaburagi	Chittapur	Nalavara	29.6	30.4	31.1	43.0	43.4	43.7
5544	Kalaburagi	Jevargi	Andola	30.0	30.4	30.7	43.4	44.2	44.6
8010	Kalaburagi	Jevargi	Jewargi	29.0	30.0	30.4	43.4	43.8	44.3
5542	Kalaburagi	Jevargi	Nelogi	28.8	29.6	30.3	42.6	43.3	43.7
5539	Kalaburagi	Kalaburagi	Aurad	28.3	28.9	29.5	43.6	44.0	44.5
5521	Kalaburagi	Kalaburagi	Farhatabad	28.8	29.5	29.8	42.4	42.8	43.4
423	Kalaburagi	Kalaburagi	Gulbarga	28.3	29.1	29.5	43.3	43.8	43.9
5532	Kalaburagi	Kalaburagi	Pattan	29.4	29.7	30.1	42.5	43.0	43.7
5527	Kalaburagi	Kalagi	Kalgi	28.1	28.9	29.7	42.4	43.3	43.7
5534	Kalaburagi	Kalagi	Kodli	28.9	29.7	30.6	43.5	44.1	44.5
5540	Kalaburagi	Kamalapura	Kamlapur	28.4	28.8	29.3	42.3	43.0	43.5
8012	Kalaburagi	Kamalapura	Mahagaon Tanda	28.1	28.7	29.4	43.5	44.0	44.5
5523	Kalaburagi	Sedam	Adki	30.4	31.2	31.6	43.2	43.5	44.3
5524	Kalaburagi	Sedam	Kanagadda	29.5	30.4	31.0	43.2	43.5	44.1
5525	Kalaburagi	Sedam	Kodla	29.0	29.8	30.1	41.2	42.4	42.9
401	Kalaburagi	Sedam	Sedam_1	29.0	30.2	31.2	42.8	43.2	43.5
5535	Kalaburagi	Shahbadha	Shahabad	30.0	30.5	31.4	44.1	44.8	45.3
5522	Kalaburagi	Yadrami	Ijeri	28.2	28.8	30.0	43.1	43.6	43.9
5543	Kalaburagi	Yadrami	Yedrami	29.8	30.2	31.2	43.3	43.6	44.0
1043	Kodagu	Kushalnagar	Harangi	21.9	22.4	22.8	35.0	35.6	36.1
3532	Kodagu	Kushalnagar	Kushalnagar	21.9	22.4	22.8	35.2	35.9	36.9
3530	Kodagu	Kushalnagar	Suntikoppa	21.0	21.6	21.8	33.6	34.7	35.5
3537	Kodagu	Madikeri	Bhagamandala	21.8	22.2	22.9	32.1	32.9	33.2

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583	Kodagu	Madikeri	Madikeri_1	20.2	20.9	21.0	30.6	31.3	32.4
3527	Kodagu	Madikeri	Napoklu	20.4	21.4	22.7	33.2	33.7	34.6
3529	Kodagu	Madikeri	Sampaje	22.9	23.5	24.5	34.9	36.3	37.5
3569	Kodagu	Ponnampet	Blale	21.5	21.9	22.2	33.7	34.3	35.1
3586	Kodagu	Ponnampet	Hudakere	21.6	21.8	22.2	33.7	34.3	35.2
3558	Kodagu	Ponnampet	Ponnampet	21.4	22.0	22.2	33.7	34.5	35.1
3528	Kodagu	Ponnampet	Srimangala	21.6	21.8	22.0	33.8	34.3	34.9
3580	Kodagu	Somwarpet	Kodlipet	21.4	21.7	21.8	33.3	34.2	34.8
3534	Kodagu	Somwarpet	Sanivarsante	21.9	22.4	22.8	34.3	34.8	35.7
3566	Kodagu	Somwarpet	Santhahalli	21.2	21.7	22.3	32.9	34.2	35.2
3771	Kodagu	Somwarpet	Somwarpet	20.3	20.8	20.9	32.6	33.4	34.0
3533	Kodagu	Virajpet	Ammati	20.7	21.0	21.5	33.7	34.3	34.9
433	Kodagu	Virajpet	Virajpet_1	22.4	22.9	23.2	34.6	35.4	37.0
3669	Kolar	Bangarapet	Bangarapet	23.5	24.0	24.3	37.3	37.9	38.4
3688	Kolar	Bangarapet	Budikote	22.8	23.1	23.9	37.9	38.1	38.4
3733	Kolar	Bangarapet	Kamsandra	22.3	22.7	23.0	38.1	38.7	39.2
3750	Kolar	Kgf	Betmangala	23.0	23.6	24.0	37.2	37.7	38.2
3702	Kolar	Kgf	Kyasamballi	22.9	23.3	23.7	37.7	38.3	39.4
3668	Kolar	Kgf	Robertsonpet	22.4	22.8	23.2	37.8	38.2	38.8
3686	Kolar	Kolar	Huttur	23.4	23.8	24.1	38.0	38.5	38.9
3713	Kolar	Kolar	Kolar	23.5	24.3	25.0	38.3	38.7	39.1
3716	Kolar	Kolar	Narasapura	23.5	24.4	25.2	38.8	39.4	39.5
3690	Kolar	Kolar	Rajakallahalli Vemagal	22.8	23.1	23.7	36.2	36.9	37.0
3658	Kolar	Kolar	Sugaturu	22.9	23.2	23.6	37.0	37.5	38.1
3692	Kolar	Kolar	Vakkaleri	22.4	22.9	23.6	37.7	38.7	39.3
3708	Kolar	Malur	Lakkur	23.1	24.0	24.2	36.9	37.5	38.1
3710	Kolar	Malur	Malur	23.3	24.0	24.4	37.2	38.0	38.5
3714	Kolar	Malur	Masathi	24.2	24.8	25.3	37.4	38.2	38.9
3693	Kolar	Malur	Tyakal	24.1	24.7	25.3	38.1	38.8	39.0
3726	Kolar	Mulabagilu	Avani	23.2	23.6	24.0	38.7	38.9	39.6
3729	Kolar	Mulabagilu	Bairakur	24.2	24.8	25.3	38.8	39.5	40.0
3727	Kolar	Mulabagilu	Duggasandra	22.8	23.3	24.1	37.3	37.6	38.2
3740	Kolar	Mulabagilu	Mulbagal	23.9	25.1	25.5	37.3	37.9	38.7
3738	Kolar	Mulabagilu	Tayilur	22.6	23.0	23.7	37.4	38.1	38.8
3720	Kolar	Srinivasapura	Nelavanki	23.4	24.0	24.8	38.2	39.0	39.5
3737	Kolar	Srinivasapura	Rayalpadu	23.8	24.4	25.0	38.8	39.2	39.9
3736	Kolar	Srinivasapura	Ronuru	23.3	24.0	24.5	38.1	38.7	39.5
3734	Kolar	Srinivasapura	Srinivasapura	23.6	24.2	25.0	38.9	39.6	40.2
3715	Kolar	Srinivasapura	Yelldur	23.9	24.3	25.1	38.2	38.8	39.4
7513	Koppala	Gangavathi	Gangavathi	27.7	28.6	29.1	42.4	42.9	43.2
7517	Koppala	Gangavathi	Marali	27.3	27.6	28.1	42.5	43.1	43.9
7520	Koppala	Gangavathi	Venkatagiri	27.1	27.7	28.2	40.9	41.2	41.6
7515	Koppala	Kanakagiri	Kanakgeri	27.1	27.4	28.0	41.7	42.4	42.7
7518	Koppala	Kanakagiri	Nauli	27.4	28.0	28.6	42.2	42.7	43.1
7516	Koppala	Karatagi	Karatgi	27.9	28.2	28.7	42.2	42.6	42.9
7519	Koppala	Karatagi	Siddapur	27.6	28.0	28.8	42.1	42.5	43.0
7501	Koppala	Koppala	Alawandi	26.2	26.6	26.7	41.2	41.3	42.5
7503	Koppala	Koppala	Erakalgud	25.9	26.2	26.6	40.4	41.0	41.5
7502	Koppala	Koppala	Hitnal	26.7	27.1	27.3	40.7	41.1	41.8
7504	Koppala	Koppala	Koppal	26.6	27.0	28.2	41.1	41.9	42.5
7510	Koppala	Kukanuru	Kuknur	25.8	26.2	26.7	39.5	40.0	40.6
7511	Koppala	Kukanuru	Manglur	26.1	26.4	26.8	40.5	40.9	41.5

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7505	Koppala	Kushtagi	Hanamsagar	25.9	26.4	26.8	40.1	40.7	41.1
7506	Koppala	Kushtagi	Hanumanhal	26.4	26.6	26.9	41.0	41.4	41.9
7507	Koppala	Kushtagi	Kushtagi	26.0	26.7	27.2	40.3	40.5	41.0
7508	Koppala	Kushtagi	Tavaragera	26.7	27.1	27.4	40.6	41.2	41.4
7509	Koppala	Yelburga	Hire Wankalkunti	26.0	26.7	27.2	39.8	40.2	40.6
7512	Koppala	Yelburga	Yelburga	26.3	26.7	27.4	40.7	41.2	41.4
7577	Mandya	Krishnarajapet	Akkihebalu	23.1	23.3	23.6	36.5	37.1	37.9
7584	Mandya	Krishnarajapet	Bukanakere	23.2	23.5	23.9	36.3	36.8	37.1
7590	Mandya	Krishnarajapet	Kikkeri	23.3	23.6	24.0	37.3	38.1	38.3
7594	Mandya	Krishnarajapet	Krishnarajapet	23.2	23.5	23.8	36.6	37.2	37.5
7601	Mandya	Krishnarajapet	Santebachahalli	23.1	23.4	23.8	35.7	36.3	36.8
7602	Mandya	Krishnarajapet	Silanare	22.5	22.8	23.1	35.7	36.2	36.7
7579	Mandya	Maddur	Autaguru (Kesturu)	24.1	24.9	25.2	37.5	38.3	38.8
7592	Mandya	Maddur	Chikkaarasinakere(Barathi Nagar	24.4	24.8	25.1	37.6	38.0	38.5
7595	Mandya	Maddur	Gejjalagere	24.1	24.8	25.2	37.9	38.4	39.4
7593	Mandya	Maddur	Koppa	24.3	24.6	25.1	37.3	38.2	38.5
7578	Mandya	Malavalli	Halaguru	24.4	24.7	25.3	38.0	38.3	39.1
7591	Mandya	Malavalli	Ragibommanahalli	24.0	24.4	24.9	37.9	38.5	39.0
7583	Mandya	Malavalli	Saragur	24.6	25.3	25.7	38.3	38.8	39.3
7589	Mandya	Mandya	Alaerke	24.3	24.8	25.0	37.2	37.8	38.3
7580	Mandya	Mandya	Basaralu	24.2	24.4	24.7	37.5	38.1	38.4
7587	Mandya	Mandya	Chandalgalu (Near Dudda)	23.7	24.1	24.3	37.0	37.3	38.1
7597	Mandya	Mandya	Mandya	24.5	24.8	25.4	37.3	37.7	38.0
7581	Mandya	Nagamangala	Belluru	23.1	23.3	23.9	36.9	37.3	38.0
7582	Mandya	Nagamangala	Bendaganavele	23.1	23.5	23.9	35.8	36.3	36.6
7586	Mandya	Nagamangala	Devalapura	23.6	23.9	24.2	37.3	37.9	38.6
7588	Mandya	Nagamangala	Honakere	24.2	24.6	25.0	36.9	37.3	37.8
2017	Mandya	Nagamangala	Nagamangala	23.6	24.3	24.9	37.7	38.8	39.1
7585	Mandya	Pandavapura	Chinkurali	22.8	23.0	23.2	36.4	36.9	37.5
7598	Mandya	Pandavapura	Melukote	24.4	25.2	25.9	36.4	37.4	37.8
7596	Mandya	Srirangapatna	Arakere	23.9	24.1	24.6	36.8	37.7	38.4
7599	Mandya	Srirangapatna	Belagola	23.5	23.7	24.1	37.0	37.6	38.3
7600	Mandya	Srirangapatna	K. Setty Halli	23.4	24.0	24.3	36.5	36.9	37.9
7603	Mandya	Srirangapatna	Srirangapatna	23.7	24.1	24.7	37.0	37.6	38.4
3768	Mysuru	Heggadadevanakote	Antarasante	22.6	23.2	23.9	36.1	36.4	36.5
7620	Mysuru	Heggadadevanakote	Hampapura	24.1	24.3	24.6	37.3	37.9	38.4
7621	Mysuru	Heggadadevanakote	Heggadadevanakote	23.6	24.0	24.5	36.2	37.0	37.4
7607	Mysuru	Hunsur	Bilikere	22.6	23.0	23.3	36.1	36.5	36.8
7608	Mysuru	Hunsur	Gowdargyare	22.9	23.1	23.8	37.4	37.6	38.2
7609	Mysuru	Hunsur	Hanagoadu	22.8	23.1	23.6	36.1	36.5	37.3
7614	Mysuru	Krishnarajanagar	Hebbalu	22.7	23.0	23.5	35.9	36.4	36.7
739	Mysuru	Krishnarajanagar	Krishnarajanagar_1	22.6	23.2	23.4	36.3	36.9	37.3
3769	Mysuru	Mysuru	Elivala	22.6	23.0	23.5	36.5	36.9	37.2
7606	Mysuru	Mysuru	Jayapura	24.0	24.3	24.7	36.8	37.5	37.9
3770	Mysuru	Mysuru	Mysore	22.9	23.1	23.5	36.2	36.5	36.9
7605	Mysuru	Mysuru	Varuna	24.6	25.1	25.5	37.1	37.7	38.2
7623	Mysuru	Nanjanagud	Bilikare	23.7	24.0	24.3	36.5	37.2	37.9
7624	Mysuru	Nanjanagud	Chikkayyana Chattra	23.9	24.2	24.6	37.2	37.9	38.2
7625	Mysuru	Nanjanagud	Doddakowlande	23.7	24.1	24.4	37.1	37.6	38.2
7626	Mysuru	Nanjanagud	Hullahalli	24.0	24.2	24.6	37.4	37.8	37.8
7612	Mysuru	Periyapatna	Bettadpur	22.2	22.6	22.9	36.6	37.0	37.3

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7613	Mysuru	Periyapatna	Haranahalli	22.4	22.8	23.3	36.5	36.9	37.5
7611	Mysuru	Periyapatna	Ravanduru	23.4	24.0	24.4	37.1	38.0	38.9
7615	Mysuru	Saligrama	Chanachanakatte	23.1	23.7	24.0	36.3	36.9	37.5
7616	Mysuru	Saligrama	Mirale	23.2	23.5	24.0	36.4	37.0	37.5
7618	Mysuru	Saligrama	Saligram	22.8	23.1	23.3	36.6	37.2	37.4
7622	Mysuru	Saraguru	B.Matakere	23.2	23.5	24.0	35.8	36.6	38.9
7628	Mysuru	T.Narasipura	Bannur	24.2	24.6	25.2	38.4	39.4	40.0
7629	Mysuru	T.Narasipura	Muguru	24.0	24.7	25.2	37.3	38.2	38.8
7631	Mysuru	T.Narasipura	T. Narasipur	24.4	24.6	25.0	37.7	38.3	38.8
7632	Mysuru	T.Narasipura	Talakad	23.8	24.0	24.4	37.1	37.7	38.0
5562	Raichur	Deodurga	Arakeri	28.8	29.2	29.5	40.8	41.5	42.7
8015	Raichur	Deodurga	Devadurga_1	28.7	29.0	30.0	42.7	42.8	43.4
5563	Raichur	Deodurga	Gabbur	29.5	30.3	31.0	42.5	43.0	43.9
5561	Raichur	Deodurga	Jalihalli	29.5	30.5	31.0	41.9	42.4	42.8
5560	Raichur	Lingsugur	Gurgunta	28.9	29.2	29.7	42.5	42.7	43.2
8014	Raichur	Lingsugur	Lingsugur	27.0	27.4	27.6	41.7	42.1	42.6
5567	Raichur	Lingsugur	Mudgal	27.8	28.4	28.9	41.6	42.1	42.4
5575	Raichur	Manvi	Hire Katankal	28.5	29.2	29.5	41.2	42.1	42.8
5577	Raichur	Manvi	Kurdi	29.5	30.2	30.8	42.9	43.2	44.1
5576	Raichur	Manvi	Manvi	29.7	30.2	30.9	42.3	42.7	43.3
5582	Raichur	Maski	Balganur	27.9	28.4	29.3	42.1	42.8	43.8
5586	Raichur	Maski	Gudadur	27.6	27.9	28.1	41.2	42.4	43.7
5589	Raichur	Maski	Halapur	27.8	28.1	29.1	42.1	42.5	43.7
5583	Raichur	Maski	Maski	27.5	27.9	28.1	41.2	42.4	43.7
5587	Raichur	Maski	Pamankallur	27.4	27.7	28.1	41.9	42.6	43.8
5579	Raichur	Raichur	Chandrabanda	29.6	30.1	30.9	43.0	43.5	44.0
5578	Raichur	Raichur	Devarsugur	29.8	30.3	30.9	42.4	42.9	43.3
5581	Raichur	Raichur	Gilasuguru	28.9	29.2	29.8	42.3	43.0	43.7
5564	Raichur	Raichur	Kalmali	28.8	29.2	29.7	42.8	43.3	43.8
387	Raichur	Raichur	Raichur_1	28.7	29.2	30.0	42.9	43.4	44.0
5580	Raichur	Raichur	Yergara	28.7	28.9	29.5	42.0	42.6	43.3
5584	Raichur	Sindhanur	Badarli	27.4	27.9	28.6	40.9	42.6	43.3
5570	Raichur	Sindhanur	Gorebal	27.9	28.3	29.0	42.2	42.5	43.1
5569	Raichur	Sindhanur	Gunjihalli	27.5	27.8	28.0	41.7	42.2	42.6
5573	Raichur	Sindhanur	Hadganhal	28.3	28.8	29.5	42.0	42.6	43.8
5571	Raichur	Sindhanur	Huda	27.9	28.2	29.5	41.5	42.3	42.8
5590	Raichur	Sindhanur	Jalihali	28.0	28.5	29.0	42.2	42.5	43.1
5591	Raichur	Sindhanur	Jawalgeri	28.0	28.8	29.5	42.7	43.1	43.8
5585	Raichur	Sindhanur	Kunatgi	27.5	27.9	28.5	42.2	42.8	43.1
5572	Raichur	Sindhanur	Salgundi	27.7	28.0	29.4	41.8	42.7	43.3
519	Raichur	Sindhanur	Sindhanur_1	27.4	27.8	28.0	42.7	43.1	43.5
5568	Raichur	Sindhanur	Turvihal	27.5	27.8	28.2	41.7	42.1	42.6
5574	Raichur	Sindhanur	Walkamdinni	28.1	28.7	29.5	42.3	42.8	43.1
5559	Raichur	Sirivara	Kallur	29.2	29.7	30.4	42.9	43.3	43.9
5566	Raichur	Sirivara	Kavital	28.1	28.4	29.2	41.7	42.4	43.3
5588	Raichur	Sirivara	Mallat	28.9	29.5	30.7	42.6	42.9	43.3
5565	Raichur	Sirivara	Sirvar	28.8	29.1	30.4	42.8	43.1	43.7
3606	Shivamogga	Bhadravathi	Bhadravathi	23.6	24.2	24.3	36.7	37.2	37.8
3581	Shivamogga	Bhadravathi	Holehonuru (1)	24.6	25.2	26.1	39.5	41.0	41.5
3540	Shivamogga	Bhadravathi	Holehonuru (3)	23.6	24.1	24.4	38.1	38.4	39.1
3571	Shivamogga	Bhadravathi	Holehonuru (2)	23.7	24.1	24.3	37.8	38.3	39.0
3611	Shivamogga	Bhadravathi	Kudaligere	24.2	24.5	24.8	37.3	37.6	38.0

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471	Shivamogga	Hosanagara	Hosanagar_1	24.2	24.4	24.8	36.7	38.0	39.0
3615	Shivamogga	Hosanagara	Huncha	23.7	24.4	24.7	37.1	38.4	39.1
3577	Shivamogga	Hosanagara	Kerehalli	23.5	24.1	24.6	36.9	38.3	39.4
3753	Shivamogga	Hosanagara	Nagar	24.1	24.5	24.9	36.1	37.3	38.1
3610	Shivamogga	Sagara	Anandapuram	23.5	23.6	23.8	37.4	37.9	38.8
3573	Shivamogga	Sagara	Avinahalli	23.7	24.3	24.8	36.8	38.1	38.8
3622	Shivamogga	Sagara	Baragadde (Barangi)	24.7	24.9	25.4	34.9	35.7	36.6
3576	Shivamogga	Sagara	Karauru	23.7	24.2	24.6	35.6	36.9	38.3
477	Shivamogga	Sagara	Sagar_1	24.2	24.4	24.9	36.7	38.0	38.6
3607	Shivamogga	Sagara	Talguppa	24.3	24.9	25.4	36.4	37.0	37.8
3612	Shivamogga	Shikaripura	Anjanapura	23.5	23.9	24.3	37.5	38.1	38.7
3617	Shivamogga	Shikaripura	Husuru	24.4	24.6	24.8	37.5	38.3	39.1
3608	Shivamogga	Shikaripura	Thogarasi	23.9	24.5	24.7	37.0	37.6	38.7
3582	Shivamogga	Shikaripura	Udagani (Shiral Koppa)	23.9	24.5	24.7	36.9	37.6	38.7
3567	Shivamogga	Shivamogga	Haranahalli	23.9	24.1	24.5	38.0	39.1	40.5
3570	Shivamogga	Shivamogga	Holalur (1)	24.5	25.2	26.1	38.3	40.5	41.5
3574	Shivamogga	Shivamogga	Holalur (2)	24.6	25.2	26.1	39.5	41.0	41.5
3585	Shivamogga	Shivamogga	Kumsi	23.5	23.7	23.9	37.5	38.2	38.8
3579	Shivamogga	Shivamogga	Nidige_1_Umbalabailu	23.5	23.8	24.3	37.4	38.7	39.0
3618	Shivamogga	Shivamogga	Nidige_2	24.4	24.8	24.9	38.5	39.4	40.0
630	Shivamogga	Shivamogga	Shimoga_1	24.5	24.8	25.0	38.3	39.2	39.4
3620	Shivamogga	Soraba	Anavatti	24.1	24.2	24.4	38.5	39.1	40.2
3575	Shivamogga	Soraba	Chandragutti	24.0	24.2	24.5	36.2	37.4	38.3
3623	Shivamogga	Soraba	Jade	25.0	25.9	26.4	38.8	39.5	40.2
3624	Shivamogga	Soraba	Kuppagadde	23.9	24.2	24.3	37.0	38.1	39.1
3621	Shivamogga	Soraba	Sorab	23.6	24.1	24.3	36.9	37.9	39.1
3583	Shivamogga	Tirthahalli	Agrahara	23.5	24.0	24.6	36.0	37.2	38.1
3772	Shivamogga	Tirthahalli	Agumbe	23.5	23.6	24.0	34.2	35.5	36.7
3568	Shivamogga	Tirthahalli	Malur	24.5	24.7	25.0	36.3	37.0	37.3
3609	Shivamogga	Tirthahalli	Mandagadde	22.4	23.0	23.7	36.4	37.4	38.5
7673	Tumakuru	Chikkanayakanahalli	Handanakere	24.1	24.5	24.9	37.3	37.6	38.0
7674	Tumakuru	Chikkanayakanahalli	Huliyar	24.7	25.1	25.3	38.0	38.6	39.0
7675	Tumakuru	Chikkanayakanahalli	Kandikere	24.4	25.0	25.3	38.0	38.5	38.9
7676	Tumakuru	Chikkanayakanahalli	Shettikeri	23.8	24.2	25.0	38.2	38.6	39.4
7672	Tumakuru	Gubbi	Chelur	23.2	23.9	24.6	37.1	37.4	37.7
549	Tumakuru	Gubbi	Gubbi_1	23.0	23.2	23.7	38.3	39.2	39.9
7669	Tumakuru	Gubbi	Kadaba	25.2	25.5	26.0	38.4	39.0	39.7
7670	Tumakuru	Gubbi	Nittur	23.1	23.6	24.3	37.5	38.1	38.6
7651	Tumakuru	Koratagere	Bukkapatna	25.1	25.5	25.9	39.7	40.4	40.6
7657	Tumakuru	Koratagere	Chennarayadurga	23.3	23.8	24.0	37.2	37.7	38.0
7659	Tumakuru	Koratagere	Holanahalli	25.0	25.5	26.0	38.4	38.8	39.6
7658	Tumakuru	Koratagere	Kolala	23.4	24.0	24.5	36.7	37.2	37.7
7650	Tumakuru	Kunigal	Amratur	24.0	24.3	25.0	36.9	37.6	37.9
7666	Tumakuru	Kunigal	Huliyurudurga	24.6	24.9	25.2	37.6	38.0	38.8
7668	Tumakuru	Kunigal	Huttariduraga	23.4	23.9	24.2	36.2	36.9	37.4
7667	Tumakuru	Kunigal	Kottagere	23.4	23.9	24.3	37.3	37.9	38.5
7689	Tumakuru	Kunigal	Yedeyur	23.7	24.1	24.6	37.8	38.2	38.7
7681	Tumakuru	Madhugiri	Dodderi	24.7	25.0	25.3	37.7	38.4	38.7
7677	Tumakuru	Madhugiri	Itakadibbanahalli	26.2	26.7	26.9	39.4	40.0	40.4
7678	Tumakuru	Madhugiri	Kodigenahalli	26.2	26.7	27.1	38.4	38.9	39.4
3746	Tumakuru	Madhugiri	Madhugiri	24.6	25.0	25.5	38.0	38.3	38.8
7679	Tumakuru	Madhugiri	Midigesi	25.7	26.3	26.7	38.3	38.9	39.1

Karnataka State Heat Action Plan 2026 | Annexure 22 –KSNDMC Station-Derived Percentile Thresholds for Heat Event Identification for May

STATION_CODE	DISTRICT	TALUKNAME	HOBLINAME	T_{min}' P_{90}	T_{min}' P_{95}	T_{min}' P_{98}	T_{max}' P_{90}	T_{max}' P_{95}	T_{max}' P_{98}
7680	Tumakuru	Madhugiri	Puravara	26.0	26.8	27.8	39.0	39.6	40.3
7655	Tumakuru	Pavagada	Nagalamadike	27.4	27.9	28.2	40.7	41.2	41.5
7688	Tumakuru	Pavagada	Yellappanayakana Hosakote	26.9	27.3	27.6	40.5	40.8	41.3
7652	Tumakuru	Sira	Hulikunta	25.9	26.3	26.6	40.1	40.9	41.1
7653	Tumakuru	Sira	Kallambella	24.5	24.9	25.6	38.6	39.2	39.4
7660	Tumakuru	Tiptur	Honnavalli	23.4	23.7	23.9	36.0	36.7	36.9
7662	Tumakuru	Tiptur	Kibbanahalli	23.2	23.8	24.4	36.7	37.0	37.2
7661	Tumakuru	Tiptur	Nonavinakere	23.6	24.5	25.0	37.6	38.0	38.6
544	Tumakuru	Tiptur	Tiptur_1	22.8	23.3	23.6	35.7	36.3	36.7
7684	Tumakuru	Tumakuru	Bellavi	23.3	24.0	24.3	36.8	37.8	37.9
7687	Tumakuru	Tumakuru	Guluru	23.7	24.1	24.7	37.4	37.9	38.4
7683	Tumakuru	Tumakuru	Hebbur	22.7	23.1	23.5	36.4	37.3	37.9
7685	Tumakuru	Tumakuru	Kora	23.7	24.0	24.4	36.6	37.4	37.8
7686	Tumakuru	Tumakuru	Tumkur	24.2	24.6	25.1	37.2	37.9	38.3
7682	Tumakuru	Tumakuru	Uradigere	23.0	23.6	23.9	36.2	36.7	37.0
7665	Tumakuru	Turuvekere	Dabbegatta	23.6	24.1	24.7	37.1	37.4	37.9
7664	Tumakuru	Turuvekere	Dandinasivara	23.5	23.8	24.3	36.6	37.0	37.4
7663	Tumakuru	Turuvekere	Mayasandra	23.2	23.5	24.2	37.3	38.0	38.4
3730	Udupi	Bramhavara	Kota	27.4	27.8	28.7	35.5	36.1	36.7
3683	Udupi	Bynduru	Baindanuru	28.4	28.6	29.0	35.2	35.4	35.8
3519	Udupi	Kapu	Kapu	27.3	27.9	28.3	35.0	35.3	35.7
3526	Udupi	Karkala	Ajekar	26.3	26.8	27.2	38.0	38.4	38.7
663	Udupi	Karkala	Karkala_1	26.3	26.8	27.4	37.5	38.2	38.7
124	Udupi	Kundapur	Kundapur_1	27.8	28.3	28.6	35.7	36.4	36.7
3522	Udupi	Kundapur	Vandse	27.3	28.0	28.4	36.1	36.3	37.1
3521	Udupi	Udupi	Perdur	26.7	27.4	28.4	34.6	35.1	36.7
337	Udupi	Udupi	Udupi_1	26.9	27.2	27.9	34.8	35.0	35.6
3588	Uttara Kannada	Ankola	Ankola	27.6	28.4	28.5	36.4	36.8	37.3
3557	Uttara Kannada	Ankola	Basagod	28.0	28.4	28.8	35.6	36.3	37.9
3555	Uttara Kannada	Ankola	Belikere (Avarse)	28.4	29.1	30.3	37.1	37.8	38.0
3587	Uttara Kannada	Ankola	Blale	28.4	28.8	28.9	37.7	38.2	38.3
3681	Uttara Kannada	Bhatkal	Mavalli	28.1	28.5	28.7	34.8	35.0	35.3
3703	Uttara Kannada	Dandelli	Dandeli	23.8	24.3	25.2	37.4	38.4	39.4
3682	Uttara Kannada	Haliyal	Haliyal	23.7	24.2	24.4	38.9	39.5	40.2
3680	Uttara Kannada	Haliyal	Murkvad	24.2	24.7	25.0	39.8	40.9	41.2
3677	Uttara Kannada	Haliyal	Sambrani	23.7	24.1	24.3	38.0	38.5	39.3
3589	Uttara Kannada	Honnavar	Honnavar	27.8	28.3	28.6	35.6	36.2	36.4
3597	Uttara Kannada	Honnavar	Mavinakurvei	27.4	28.1	29.0	37.2	37.9	38.6
3601	Uttara Kannada	Karwar	Ghadasaya	27.0	27.5	28.3	37.8	38.3	39.1
3604	Uttara Kannada	Karwar	Kinnar	27.4	27.9	28.8	37.0	37.8	38.4
3598	Uttara Kannada	Karwar	Savantvada	28.3	28.8	29.7	37.2	37.8	38.3
3592	Uttara Kannada	Kumta	Gokarna	28.2	28.7	29.2	35.0	35.5	35.8
3667	Uttara Kannada	Kumta	Kujahalli	27.4	28.1	28.6	36.4	37.4	38.2
628	Uttara Kannada	Kumta	Kumta_1	27.7	28.3	28.6	37.1	37.6	38.2
3603	Uttara Kannada	Kumta	Mirjan	27.1	27.4	27.9	36.3	37.1	37.8
3704	Uttara Kannada	Mundgod	Pala	24.7	25.0	25.4	38.2	39.0	40.9
3666	Uttara Kannada	Siddapur	Kodkani	24.9	25.4	26.1	36.3	36.9	37.8
380	Uttara Kannada	Siddapur	Siddapur (Kondli)_1	24.3	25.1	25.6	36.8	37.5	38.7
3701	Uttara Kannada	Siddapur	Umbalamani	23.7	24.3	24.8	35.2	36.4	37.7
3657	Uttara Kannada	Sirsi	Hulekal	24.4	25.0	25.7	37.2	38.3	39.3
3697	Uttara Kannada	Sirsi	Sampakanda (Ammanahalli)	23.7	24.2	24.7	36.0	37.0	37.8
361	Uttara Kannada	Sirsi	Sirsi_1	24.9	25.6	25.7	37.7	38.7	39.5

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STATION_CODE	DISTRICT	TALUKNAME	HOBLINAME	T_{min}' P_{90}	T_{min}' P_{95}	T_{min}' P_{98}	T_{max}' P_{90}	T_{max}' P_{95}	T_{max}' P_{98}
3673	Uttara Kannada	Supa	Castle Rock	25.8	26.6	27.4	37.6	38.4	38.8
3678	Uttara Kannada	Supa	Kumbarawada	24.9	25.5	26.2	37.5	38.3	40.1
3653	Uttara Kannada	Supa	Supa	24.8	26.0	26.4	38.9	39.8	41.5
3654	Uttara Kannada	Yellapur	Manchikeri	24.3	24.6	25.1	36.1	36.9	38.4
8000	Vijayanagara	Hadagali	Hadagali	25.6	26.3	26.7	40.8	41.2	41.5
7557	Vijayanagara	Hadagali	Hirehadagalli	25.9	26.3	26.7	40.8	41.3	41.7
7558	Vijayanagara	Hadagali	Ittigi	26.1	26.4	26.4	39.9	40.2	40.5
7553	Vijayanagara	Hagaribommanahalli	Hagaribommanahalli	26.5	27.0	27.2	41.4	42.0	42.6
7555	Vijayanagara	Hagaribommanahalli	Tambarahalli	26.6	26.8	27.2	41.3	41.8	42.5
7569	Vijayanagara	Harappanahalli	Arasikere	25.9	27.2	27.5	39.8	40.4	40.9
7570	Vijayanagara	Harappanahalli	Chigateri	26.2	26.6	27.0	40.0	40.4	41.1
7561	Vijayanagara	Harappanahalli	Telagi	26.2	26.7	27.3	39.9	40.4	40.9
615	Vijayanagara	Hosapete	Hospet_1	27.1	27.8	28.4	40.9	41.7	42.3
7545	Vijayanagara	Hosapete	Kamalapuram	27.4	27.9	28.4	41.7	42.1	42.6
7547	Vijayanagara	Hosapete	Mariyammanahalli	26.9	27.4	28.0	41.7	42.4	42.6
7554	Vijayanagara	Kotturu	Kogali	26.2	26.4	26.7	40.5	40.9	41.5
7552	Vijayanagara	Kotturu	Kotturu	25.9	26.0	26.8	39.5	39.9	40.2
7550	Vijayanagara	Kudligi	Gudekote	26.4	26.7	27.2	40.1	41.1	41.4
7551	Vijayanagara	Kudligi	Hosahalli	25.1	25.5	25.8	39.4	39.8	40.0
8002	Vijayanagara	Kudligi	Kudligi_1	25.1	25.4	25.7	39.6	40.8	42.6
8009	Vijayapura	Alamela	Almel	27.6	28.2	28.9	43.4	44.0	45.0
5615	Vijayapura	Babaleshwara	Bobleshwar	25.4	26.2	26.7	40.3	41.0	41.6
5614	Vijayapura	Babaleshwara	Mamdapur	26.4	26.9	27.5	42.3	43.0	43.4
8008	Vijayapura	Basavanabagevadi	Basavanabagevadi	26.4	26.8	28.0	41.4	42.0	42.3
5609	Vijayapura	Basavanabagevadi	Huvin Hippargi	25.9	26.5	27.5	40.7	42.0	42.3
5605	Vijayapura	Chadachana	Chadchan	28.7	29.0	29.6	41.9	42.3	42.6
5608	Vijayapura	Devara Hipparagi	Devar Hippargi	28.4	29.2	29.8	42.2	42.7	43.5
5606	Vijayapura	Indi	Ballolli	27.7	28.7	29.2	41.4	42.0	42.5
8006	Vijayapura	Indi	Indi	29.1	29.7	30.8	42.6	43.4	43.9
5613	Vijayapura	Kolhara	Kolhar	26.7	27.5	28.1	40.6	41.3	41.7
5610	Vijayapura	Muddebihal	Dhavalagi	26.4	27.0	27.5	40.8	41.7	42.5
537	Vijayapura	Muddebihal	Muddebihal_1	26.3	26.9	27.7	41.0	41.4	42.0
5611	Vijayapura	Muddebihal	Nalatvad	27.9	28.6	29.0	42.9	43.5	44.2
5607	Vijayapura	Sindgi	Sindgi	27.9	28.6	29.7	43.4	44.0	44.8
5612	Vijayapura	Talikote	Talikota	27.7	28.2	29.1	42.5	42.8	43.6
5616	Vijayapura	Tikota	Tikota	26.7	27.1	28.2	40.9	41.5	41.8
5617	Vijayapura	Vijayapura	Nagathan	27.9	28.3	28.9	41.7	42.2	42.6
8007	Vijayapura	Vijayapura	Vijayapura	26.1	26.9	27.3	40.2	40.7	40.9
5604	Yadgir	Gurumithakala	Gurmatkal	28.3	28.9	29.5	41.9	43.2	43.5
5602	Yadgir	Gurumithakala	Konakal	29.3	30.0	30.8	43.0	43.5	44.1
5593	Yadgir	Hunisigi	Hunasagi	29.1	29.7	30.3	42.0	42.6	43.0
5594	Yadgir	Hunisigi	Kodekal	27.6	28.3	29.1	41.6	42.6	42.8
5597	Yadgir	Shahapur	Doranahlli	29.2	29.9	30.7	43.4	43.9	44.3
5598	Yadgir	Shahapur	Gogi (Gugipet)	28.4	29.1	29.5	42.3	42.9	43.2
5596	Yadgir	Shahapur	Shahapur	29.7	30.6	31.5	43.1	43.5	44.3
8018	Yadgir	Shahapur	Shahapur_1	28.2	28.9	29.6	43.0	43.7	43.9
5595	Yadgir	Shorapur	Kakkeri	28.8	29.7	30.3	42.6	43.0	43.7
5592	Yadgir	Shorapur	Kembhavi	28.9	29.2	29.5	42.1	42.7	43.3
8017	Yadgir	Shorapur	Shorapur	29.0	29.5	30.2	42.2	43.0	43.6
5599	Yadgir	Vadagera	Wadagera	29.8	31.0	31.3	43.0	43.2	43.4
5601	Yadgir	Yadgir	Balichakra	28.6	29.3	30.2	41.6	42.6	43.1
5603	Yadgir	Yadgir	Hattikuni	28.7	29.4	29.9	43.0	43.8	44.5

STATION_CODE	DISTRICT	TALUKNAME	HOBLINAME	T_{min}' P_{90}	T_{min}' P_{95}	T_{min}' P_{98}	T_{max}' P_{90}	T_{max}' P_{95}	T_{max}' P_{98}
5600	Yadgir	Yadgir	Saidapur	29.7	30.2	30.7	42.7	43.2	43.6
8016	Yadgir	Yadgir	Yadgir	28.6	29.3	29.9	43.9	44.6	45.0

Annexure 23: Drinking water situation and water supply status:

Through tankers and hired private borewells in rural areas as of the latest update while preparing this report.

SL No	District	No. of taluks likely to face drinking water issues during summer season	No. of GPs likely to face drinking water issues during summer season	Rural Drinking water supply details						
				Out of col-c, no of taluks already facing drinking water problem	Out of col-d, no. of GPs already facing drinking water problems	Out of col-f, Tanker supply details			out of col-f, Hired private borewell details	
						No. of villages supplied water through tankers	No. of tankers utilized (hired + department tankers) to supply drinking water		No. of Private Borewells hired	No. of villages water supply through Pvt. Borewells
a	b	c	d	e	f	g	No. of departmental tankers utilized	No. of private tankers utilized	j	k
1	Bagalkot	9	114	0	0	0	0	0	0	0
2	Ballari	5	61	2	5	2	2	0	10	5
3	Belagavi	14	126	0	0	0	0	0	0	0
4	Bengaluru Rural	4	44	0	0	0	0	0	0	0
5	Bengaluru Urban	5	23	3	6	8	1	7	3	3
6	Bidar	8	65	2	1	0	0	0	2	2
7	Chamarajanagara	5	63	1	17	15	0	15	5	5
8	Chikkaballapur	7	75	5	16	0	0	0	18	18
9	Chikkamagalur	9	92	4	16	9	0	9	13	12
10	Chitradurga	4	61	1	5	0	0	0	6	6
11	Dakshina Kannada	1	4	1	4	5	0	4	0	0
12	Davanagere	3	6	3	6	0	0	0	8	8
13	Dharwad	5	62	3	12	0	0	0	16	14
14	Gadag	7	44	0	0	0	0	0	0	0
15	Hassan	3	7	0	0	1	0	1	10	9
16	Haveri	7	138	5	18	0	0	0	31	24
17	Kalaburagi	11	180	1	2	1	1	0	1	1
18	Kodagu	1	1	0	0	0	0	0	0	0
19	Kolar	6	88	3	9	0	0	0	13	13
20	Koppal	7	70	0	0	0	0	0	0	0
21	Mandya	7	130	2	2	0	0	0	2	2
22	Mysuru	9	75	0	0	0	0	0	0	0
23	Raichur	8	100	5	22	0	0	0	40	36
24	Ramanagara	5	27	5	27	23	0	24	32	32
25	Shivamogga	7	98	0	0	0	0	0	0	0
26	Tumakuru	10	100	9	26	11	0	5	15	15
27	Udupi	7	91	0	0	0	0	0	0	0
28	Uttara Kannada	12	170	2	20	1	0	6	33	26
29	Vijayanagara	6	91	3	13	0	0	0	22	17

30	Vijayapura	5	38	0	0	0	0	0	0	0
31	Yadgiri	6	44	0	0	0	0	0	0	0
Total		203	2288	60	227	76	4	71	280	



Acknowledgements



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