# Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga, Karnataka

## Gramin Krishi Mausam Sewa Project

## Agromet Advisory Service Bulletin for Dakshina Kannada District

(Issued jointly by India Meteorological Department, Pune & MC, Bengaluru and GKMS, Zonal Agricultural and Horticultural Research Station, Brahmavar-576213 Udupi District, Karnataka)

**Weather Forecast from 13.08.2022 to 17.08.2022**

**No. GKMSB/062/2022** **Date: 12.08.2022**

**Weather Forecast Issued by the India Meteorological Department for Dakshina Kannada District for the coming five days – until 0830 hrs of 13.08.2022 to 17.08.2022**

| Sl. No | Weather Parameters | Day-1 (13.08.2022) | Day-2 (14.08.2022) | Day-3 (15.08.2022) | Day-4 (16.08.2022) | Day-5 (17.08.2022) | Past Week Mean | Forecast Mean |
|---|---|---|---|---|---|---|---|---|
| 1 | Rainfall (mm) | 15 | 11 | 12 | 11 | 5 | 62.4 | 54↓ |
| 2 | Max Temp (°C) | 29 | 29 | 29 | 30 | 30 | 27.8 | 29.4↑ |
| 3 | Min Temp (°C) | 24 | 24 | 24 | 24 | 24 | 22.8 | 24↑ |
| 4 | Cloud cover (Okta) | 8 | 7 | 8 | 8 | 6 | 7 | 7= |
| 5 | Max. Relative Humidity (%) | 88 | 88 | 88 | 89 | 89 | 93 | 88.4↓ |
| 6 | Min. Relative Humidity (%) | 85 | 85 | 84 | 84 | 83 | 90.2 | 84.2↓ |
| 7 | Wind Speed (Kmph) | 6 | 5 | 5 | 5 | 5 | 6 | 5.2↓ |
| 8 | Wind Direction (°) | 169 | 161 | 210 | 292 | 289 | 202 | 224↑ |
| 9 | Forecast Warning | R+TSH,SSW | SSW | SSW | NIL | NIL | | |
| 10 | Chance of Occurrence (%) | >75% | >75% | >75% | >75% | >50- ≤75% | | |

**As per the extended range rainfall forecast given by IMD, New Delhi and MC, Bangalore for coastal region of Karnataka including Dakshina Kannada district the rainfall will be Below normal from 17.08.2022 to 23.08.2022**

## Summary of Weather Forecast for next Five days

As per the Weather forecast issued by the India Meteorological Department, Pune and Bengaluru for Dakshina Kannada district, **Cloudy weather associated thunderstorm with lightning & Strong Surface Winds likely at most places, a chance of Light to Moderate rainfall in some places of district, is likely to be expected for next five days.** The maximum temperature would be around **29-30°C** and minimum temperature would be around **24°C** to during next five days. The Morning Relative humidity (RH) would vary from **88-89 per cent,** Evening Relative humidity (RH) would vary from **83-85 per cent** and wind speed will be in the range of **5-6** km/hr.

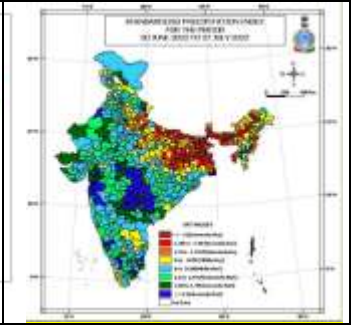
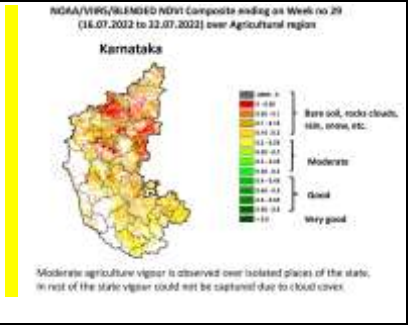
## Mobile Applications developed by India Meteorological Department for the benefit of Farming Community

## Farmers are suggested to download the app using below links

| | Mausam: | Meghdoot: | Damini: |
|---|---|---|---|
| Andriod: | https://play.google.com/store/apps/details?id=com.imd.masuam | https://play.google.com/store/apps/details?id=com.aas.meghdoot | https://play.google.com/store/apps/details?id=com.lightening.live.damini |
| Apple OS: | https://apps.apple.com/us/app/id1522893967 | https://apps.apple.com/in/app/meghdoot/id1474048155 | https://apps.apple.com/app/id1502385645 |

**Decadal Rainfall (mm) Comparison:**

| Year | 30 years Mean | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rainfall | 3790.4 | 3628.1 | 2984.2 | 3325.3 | 2816.3 | 2383.4 | 2827.1 | 3000 | 3381.2 | 4118.4 | 4110.8 | 4110.8 | 2789.2 |
| Rainy days | 110 | 128 | 105 | 127 | 112 | 107 | 119 | 121 | 112 | 123 | 126 | 152 | 84 |

| Realised Rainfall (21th July to 27th July, 2022) | Rainfall Forecast Map (29th July to 04th Aug 2022) | Standardized Precipitation Index Outlook (30.06.2021 to 27.07.2022) | Normalized Difference Vegetation Index |
|---|---|---|---|
|  |  |  |   |

# Weather based Agromet Advisories for Dakshina Kannada District

## Horticulture Crops :

| Crop | Operations/ Agromet Advisories |
|---|---|
| Arecanut (Koleroga) | Due to continues rainfall from past 15 days Koleroga in Arecanut may spread. To avoid this disease farmers can spray 1% Bordo Mixture to Arecanut when calm weather prevails. |
| Agriculture Lime Application | Farmers can Apply agricultural lime to the fields 15-20 days prior to application of recommended dose of fertilizers. |
| Coconut (Rhinoceros Beetle) | • Collect and destroy the various stages of the beetle from the manure pits (breeding ground of the pest) whenever manure is lifted from the pits.<br>• Incorporate the entomopathogen i.e, fungus (Metarrhizium anisopliae) in manure pits to check the perpetuation of the pest.<br>• Examine the crowns of tree at every harvest and hook out and kill the adults.<br>• Apply mixture of either phorate 10 G + sand (1:2) @150 g per palm or Chlorpyrifos 10 G + sand (1:2) @150 g per palm in the base of the 3 inner most leaves in the crown.<br>• Place Chlorpyrifos 10 G 5gm in perforated sachets in two inner most leaf axils for 25-30 days once.<br>• Set up one Rhinolure pheromone trap for half hectare area to trap and kill the beetles. |
| Coconut (stem Bleeding) | To manage stem bleeding scrape the stem portion & paste it with 1% Bordeaux paste or drench it with Hexaconazole @ 2ml/ltr (3litre per palm) & apply 5kg of Neem cake per palm. |
| Banana (General Advice) | 5 months After planting spray Banana special @5gm/ltr of water at an interval of 30days or one month.(For one sprayer spray solution add 1 lime and shampoo) |
| Black Pepper (Quick wilt) | Infected plants are removed and burnt it.In the orchard make it proper irrigation channel. Excess dried plant and runners from the ground level should be cut and removed. |
| Cashew (Stem Borer) | Farmers are advised to clean the first then with the help of hook collect live larvae and destroy it. Spray Qunilaphos @ of 2ml/lt of water |
| Cashew leaf (Beetle & Weevil) | • They congregate at the newly emerged shoots, leaves and completely feeds on leaves.<br>• For management of this pest spray with Monocrotophos at 1.5ml litre of water. |
| Jasmine (Leaf Spot) | • To manage this disease, spray with Hexaconazole @ 1ml/litre of water. |

## Cereals and Pulses :

| | |
|---|---|
| Paddy (Weed management) | • 3-4 days after transplantation farmers can apply pre emergent herbicides like Pendimithalin 38.7CS (3ml of herbicide per litre of water per acre) or Spray 8gm of Metsulfuron Methyl + Chlorimuron Ethyl per acre (8gm of herbicide dissolved in 100-120 litre of Water).At 15-20 days of transplanting, go for application of early post emergent herbicide Bispyriback Sodium 10% SC@ 0.4ml/ litre (Caution: If weeds are at 2-4 leaf stage herbicide will be more effective) At 15-20 days of transplanting, go for application of post emergent herbicide 2,4D sodium salt for broad leaves weeds @ 4gram/ litre (Caution: Per one acre spray solution should be 120-150 litre.) |

## Animal Husbandry :

| | |
|---|---|
| Cattle (General advise) | ➢ Avoid tying animals under tree or in any exposed area during lightning and thunderstorm<br>➢ Vaccinate the animals for Hemorrhagic septicaemia (HS) and Black quarter during June months. |

**(This Agro Advisory Information is based on Weather forecast received from MC, Bengaluru & IMD,New Delhi)**

**Mr. Praveen K.M**
Technical Officer, GKMS,
ZAHRS, Brahmavar, Udupi.

**Dr. K.V. Sudhir Kamath**
Nodal Officer, GKMS,
ZAHRS, Brahmavar, Udupi.