



# 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 05.12.2020 to 09.12.2020

No. GKMSB/096/2020

Date: 04.12.2020

**Weather Forecast Issued by the India Meteorological Department for Dakshina Kannada District for the coming five days – until 0830 hrs of 05.12.2020 to 09.12.2020**

| Sl. No | Weather Parameters         | Day-1<br>(05.12.2020) | Day-2<br>(06.12.2020) | Day-3<br>(07.12.2020) | Day-4<br>(08.12.2020) | Day-5<br>(09.12.2020) | Past Week<br>Mean | Forecast<br>Mean |
|--------|----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------|------------------|
| 1      | Rainfall (mm)              | 2                     | 3                     | 0                     | 0                     | 0                     | 0                 | 5 ↑              |
| 2      | Max Temp (°C)              | 33                    | 33                    | 33                    | 34                    | 34                    | 34.7              | 33.4 ↓           |
| 3      | Min Temp (°C)              | 22                    | 22                    | 22                    | 21                    | 21                    | 22.2              | 21.6 ↓           |
| 4      | Cloud cover (Okta)         | 5                     | 5                     | 5                     | 5                     | 4                     | 3.8               | 4.8 ↑            |
| 5      | Max. Relative Humidity (%) | 94                    | 95                    | 96                    | 93                    | 92                    | 87.6              | 94 ↑             |
| 6      | Min. Relative Humidity (%) | 69                    | 67                    | 65                    | 65                    | 63                    | 71.8              | 65.8 ↓           |
| 7      | Wind Speed (Kmph)          | 3                     | 4                     | 3                     | 4                     | 4                     | 6                 | 3.6 ↓            |
| 8      | Wind Direction (°)         | 73                    | 73                    | 75                    | 75                    | 70                    | 300               | 73.2 ↓           |
| 9      | Forecast Warning           | Dry                   | Dry                   | Dry                   | Dry                   | Dry                   |                   |                  |
| 10     | Chance of Occurrence (%)   | >75%                  | >75%                  | >75%                  | >75%                  | >75%                  |                   |                  |

|                          |                     |                               |                        |                                     |           |
|--------------------------|---------------------|-------------------------------|------------------------|-------------------------------------|-----------|
| D - 0.0 mm               | Dry Weather         | L/M -- Light to Moderate Rain |                        |                                     |           |
| VL - 0.0 to 2.4 mm       | Very Light Rainfall | M/H -- Moderate to Heavy Rain | ISL-Isolated           | Likely to occur at Isolated Places  | ≤25%      |
| L - 2.5 to 15.5          | Light Rainfall      | HA -- Hail Storm              | SCT- Scattered         | Very Likely to occur at Few Places  | >25- ≤50% |
| M - 15.6 to 64.4         | Moderate Rainfall   | SQ -- Squall<br>GW-Gusty wind | FWS-Fairly Wide Spread | Most Likely to occur at Many Places | >50- ≤75% |
| H (R+) - 65.5 to 115.5   | High Rainfall       | TS -- Thunderstorm            | WS- Wide Spread        | Occur at Most Places                | >75%      |
| VH(R++) - 115.6 to 204.4 | Very High Rainfall  | TSH-Thundershowers            |                        |                                     |           |
| ExH (R++) - >204.5       | Extr.Heavy Rainfall | TSGR- Thundershower with hail |                        |                                     |           |

### 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 with a chance of very light rainfall followed by dry weather may be expected for the next five days.** The maximum temperature would be around **33-34 °C** and minimum temperature would be around **21-22°C** to during next five days. The Morning Relative humidity (RH) would vary from **92-96 per cent**, Evening Relative humidity (RH) would vary from **63-69 per cent** and wind speed will be in the range of **3-4 km/hr.**

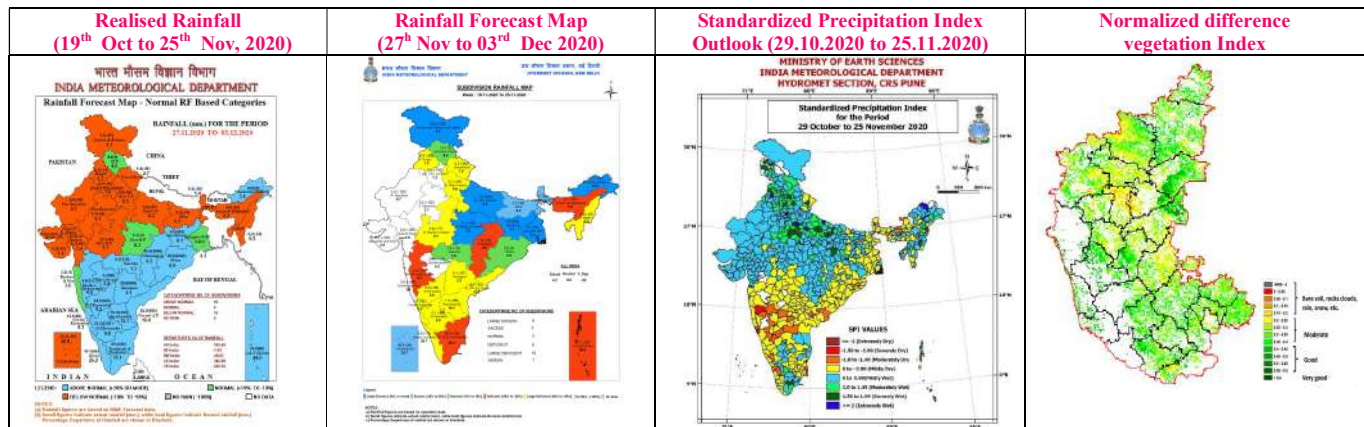
### Mobile Applications developed by India Meteorological Department for the benefit of Farming Community

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

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

### Decadal Rainfall (mm) Comparison:

| Year       | 30 years Mean | 2009   | 2010 | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017 | 2018   | 2019   | 2020 Cum. Rainfall |
|------------|---------------|--------|------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------------------|
| Rainfall   |               | 3054.5 | 4832 | 3628.1 | 2984.2 | 3325.3 | 2816.3 | 2383.4 | 2827.1 | 3000 | 3381.2 | 4118.4 | 4102.5             |
| Rainy days |               | 112    | 126  | 128    | 105    | 127    | 112    | 107    | 119    | 121  | 112    | 123    | 124                |



## **Weather based Agromet Advisories for Dakshina Kannada District**

### **Horticulture Crops :**

| <b>Crop</b>                                  | <b>Operations/ Agromet Advisories</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sahyadri Thrishool</b>                    | <ul style="list-style-type: none"> <li>Mix 4 kg of Sahyadri Thrishool with 1kg of Jaggery in 200 litre of water and keep it for one day &amp; drench to root zone of plants. For Arecanut 1-2 litre/ plant, for Coconut 3-4 litre/ plant and for Black Pepper 1 litre/ plant.</li> </ul>                                                                                                                                                                                                                                                                                                                     |
| <b>Pepper (Slow wilt)</b>                    | <ul style="list-style-type: none"> <li>For control of this disease, spray with Carbendazim+ Mancozeb @ 2gram / litre of water.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Arecanut/ Coconut (Red palm weevil)</b>   | <ul style="list-style-type: none"> <li>Check for wounds and apply Chloropyrifos and close with clay paste.</li> <li>Drill a small hole where this insect is observed and apply Chloropyrifos @ 2ml/litre of water and close the hole with clay soil.</li> <li>If this insect is observed in crown, clean the crown area of plant and drench with Chloropyrifos @2ml/litre of water.</li> <li>For management of Red palm weevil, install one pheromone trap per acre outside the coconut plantation. Inspect pheromone traps once in 2-3 days and kill the trapped insects in the pheromone traps.</li> </ul> |
| <b>Arecanut/ Coconut ( Water management)</b> | <ul style="list-style-type: none"> <li>Based on age of crop and soil type, provide 15-20 liter of water per plant through drip irrigation.</li> <li>Practice mulching of farm wastes in order to retain soil moisture content, to avoid evaporation loss and also helps to control weed growth.</li> </ul>                                                                                                                                                                                                                                                                                                   |
| <b>Cashew (Tea mosquito)</b>                 | <ul style="list-style-type: none"> <li>New sproutings of tender shoots is observed in cashew plants .</li> <li>Tea mosquito bugs suck the sap from young tender new sprout (pink to green colour sprouts)</li> <li>For management of tea mosquito bug spray with Monocrotophos @1.5ml per liter.</li> </ul>                                                                                                                                                                                                                                                                                                  |
| <b>Banana Leaf Spot</b>                      | <ul style="list-style-type: none"> <li>As a precautionary measure go for pruning of severely affected leaves and destroy them followed by Spraying with Hexaconazole or Difencanazole @ 1.0 ml/ litre of water.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Jasmine (Sucking pest)</b>                | <ul style="list-style-type: none"> <li>Sucking pest are observed in jasmine during cloudy weather, for management of this pest spray with Imidaclofrid or Acephate @ 1 gram per liter of water.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                   |

### **Cereals and Pulses :**

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Blackgram (Sowing)</b>        | <ul style="list-style-type: none"> <li>Weather is suitable for sowing relay crops like Blackgram, Greengram, Fieldbean etc.</li> <li>After harvest of paddy, based on retained soil moisture content go for sowing of blackgram.</li> <li><b>Suitable varieties: T-9, Rashmi or any local varieties.</b></li> <li><b>Seed requirement: 8-10Kg. per acre</b></li> </ul>                                                                                                                                                                           |
| <b>Greengram (Sowing)</b>        | <ul style="list-style-type: none"> <li>Weather is suitable for sowing relay crops like Blackgram, Greengram, Fieldbean etc.</li> <li>After harvest of paddy, based on retained soil moisture content go for sowing of Greengram</li> <li><b>Suitable varieties: KKM-3 or any local varieties.</b></li> <li><b>Seed requirement: 6-8Kg. per acre</b></li> </ul>                                                                                                                                                                                   |
| <b>Field bean (Sowing)</b>       | <ul style="list-style-type: none"> <li>Weather is suitable for sowing relay crops like Blackgram, Greengram, Fieldbean etc.</li> <li>After harvest of paddy, based on retained soil moisture content go for sowing of Fieldbean.</li> <li><b>Suitable varieties: HA-3, HA-4 or any local varieties.</b></li> <li><b>Seed requirement: 10-12Kg. per acre</b></li> </ul>                                                                                                                                                                           |
| <b>Vegetable crops: (Sowing)</b> | <ul style="list-style-type: none"> <li>After harvest of paddy crop prepare land for sowing of vegetable crops. Prior to 15 days of land preparation apply 200 Kg of lime and 10 ton of FYM per acre.</li> <li>Based on retained soil moisture content go for sowing or planting of vegetable crops like Bhendhi, Brinjal, Ridgegourd, Cucumber, Amaranthus, Bitter Gourd, Malabar spinach (basella) and other gourds.</li> <li>Apply 50% of recommended nitrogen and 100% of phosphorus and potash fertilizers at the time of sowing.</li> </ul> |

This Agro Advisory information is based on the weather forecast received from IMD, Bengaluru.

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