|  |  |  |
| --- | --- | --- |
| / | **Gramin Krishi Mausam Sewa (GKMS)****Agromet Field Unit (AMFU)**Agricultural Research Station, TNAU, Kovilpatti - 628 501Email: agmet\_arskpt@yahoo.co.in, amfukovilpatti@gmail.com |  |

 **Thoothukudi District level AAB N. 101/2024 Day & Date: Tuesday &** **17.12.2024**

|  |  |  |
| --- | --- | --- |
| **Observed weather for the period 10th December to 16th December 2024** | **Weather Parameters / Date** | **Weather forecast****(Valid from 18th December 2024 to 8:30 hrs of 22nd December 2024)** |
| **10/12** | **11/12** | **12/12** | **13/12** | **14/12** | **15/12** | **16/12** | **Day 1****18/12** | **Day 2****19/12** | **Day 3****20/12** | **Day 4****21/12** | **Day 5****22/12** |
| 0.0 | 0.2 | 5.4 | 116.2 | 40.1 | 15.0 | 0.0 | **Rainfall (mm)** | 10 | 10 | 4 | 4 | 4 |
| 32 | 33 | 31 | 26 | 29 | 23 | 30 | **Max. Temp. (oC)** | 30 | 30 | 30 | 31 | 31 |
| 25 | 25 | 23 | 23 | 21 | 22 | 24 | **Min. Temp. (oC)** | 24 | 24 | 24 | 25 | 25 |
| Partly Cloudy | Mainly Cloudy | Mainly Cloudy | Mainly Cloudy | Mainly Cloudy | Partly Cloudy | Partly Cloudy | **Sky condition**  | Generally cloudy | Generally cloudy | Generally cloudy | Mainly Cloudy | Mainly Cloudy |
| 80 | 76 | 98 | 94 | 98 | 88 | 81 | **RH - Mor. (%)** | 80 | 80 | 80 | 75 | 75 |
| 81 | 76 | 93 | 98 | 100 | 76 | 76 | **RH - Eve. (%)** | 70 | 70 | 70 | 75 | 75 |
| 4 | 7 | 3 | 4 | 2 | 5 | 6 | **Wind speed (kmph)** | 6 | 6 | 6 | 4 | 4 |
| ESE | NNE | N | N | NNW | E | E | **Wind direction**  | E | E | E | E | E |

|  |  |
| --- | --- |
| **Rainfall (mm) in last week** | **Rainfall (mm) from 01/01/2024 to till dated** |
| **176.9** | **553.4** |

**Weather forecast**

* The maximum temperature is expected to decrease 2oC compared to the previous week.
* **Light rain is predicted for the next five days.**
* Sky condition will be generally to mainly cloudy.
* Wind speed is expected to be 4-6 km per hour and the wind direction will be from East direction.

|  |  |  |
| --- | --- | --- |
| **Crop** | **Stage** | **Agromet Advisory** |
| Irrigated crops  | Water management | Farmers are advised to postpone the irrigation based on the crop requirement. |
| Rainfed crops | Rainfall | To prevent crop damage from continuous rainfall, farmers are advised to ensure proper drainage systems to avoid water stagnation in the fields. |
| Rainfed & irrigated crops | Rainfall | Postpone spraying; however, it may be practiced based on local weather conditions. |
| Pulses  | Flowering stage | * Precaution may be taken to avoid water stagnation in the field.
* Postpone spraying; however, it may be practiced based on local weather conditions.
* Due to water stagnation, yellowing of leaves is noticed. Hence, foliar spray of 2% DAP + 1% KCl (MOP) or TNAU pulse wonder @ 2 kg / acre may be given.
 |
| pod formation stage | * Precaution may be taken to avoid water stagnation in the field.
* Postpone spraying; however, it may be practiced based on local weather conditions.
 |
| Maturity stage  | Harvest the pods immediately and store it safely to prevent fungal spread. |
| Sorghum  | Panicle initiation phase | Continuous rainfall may affect the crop stand; hence farmers are requested to practice **earth up and form new ridges** to provide additional anchorage to the plants. |
| Maize | silking to cob filling stage  |
| Paddy | Vegetative stage | Maintain the water level to avoid crop damage and avoid application of fertilizer.  |
| Transplanting stage | Maintain the water level and ensure strong bunds to prevent crop lodging. |
| Chilli  | Flowering stage | * Ensure proper drainage systems to avoid water stagnation
* Avoid spraying and provide drainage facilities to avoid damping off infection. If symptoms persist soil drenching with copper oxychloride 2.5g/lit. may be practiced.
 |
| Cotton  | Flowering & square formation stage | * Crop residue mulching may be done to reduce the soil erosion.
* Precaution may be taken to avoid water stagnation in the field.
* Immediate action for **earth up and form new ridges** to avoid lodging of crop due to continuous rainfall.
 |
| Banana | BunchDevelopment stage | * High wind speeds may damage the physical appearance of the crop. Hence, farmers are advised to practice propping.
* Earthing up should be practiced to avoid lodging
 |
| Live stock  | Shelter  | Ensure the stability of animal shed structures and avoid stagnation of water around the shed. Provide adequate drinking water as the humidity is very high. |
| Disease forecast for the month of December | * Bluetongue -high risk- Preventive Measures:

Vector control using insecticides and good water management. Restriction in animal movement, segregation of affected animals and symptomatic treatment. Strict bio security measures.* Peste des petits ruminants- Very high risk- Preventive Measures:

Vaccination of susceptible animals of above 3 months old age. Restriction on animal movement, strict biosecurity measures and proper disposal of carcass. |
| Human | Rainfall | The public is requested to carry umbrellas or raincoats and take preventive measures against the cold. |

SMS: Rain:18-22.12-10,10,4,4&4mm. Ensure proper drainage. Pulses-pods may be harvested immediately and kept safe. Maize, Sorghum, Cotton- practice earthing up to avoid lodging.

|  |
| --- |
| **Tamil Nadu** |
| Yesterday’s Low-Pressure area over central parts of South Bay of Bengal now lies over southwest Bay of Bengal at 0830 IST of today, the 17th December, 2024. The associated cyclonic circulation extends upto 5.8 km above mean sea level. It is likely to become more marked and move west northwestwards towards Tamil Nadu coast during next 2 days. |
| Weather forecast  | Next five days | * **Day 1 (18.12.2024):** Light to moderate rain at a few places (at many places over North Coastal Tamilnadu and at one or two places over rest Tamilnadu) with thunderstorm and lighting at one or two places is likely to occur over Tamilnadu.
* **Day 2 (19.12.2024) :** Light to moderate rain at a few places (at many places over North Coastal Tamilnadu and at a few places over rest Tamilnadu) with thunderstorm and lighting at one or two places is likely to occur over Tamilnadu.
* **Day 3 (20.12.2024):** Light to moderate rain at a few places with thunderstorm and lighting at one or two places is likely to occur over Tamilnadu.
* **Day 4 (21.12.2024):** Light to moderate rain at a few places with thunderstorm and lighting at one or two places is likely to occur over Tamilnadu.
* **Day 5 (22.12.2024):** Light to moderate rain is likely to occur at one or two places over Tamilnadu.
 |
| Thunderstorm Warning |  | **Day 1 (18.12.2024) to Day 4 (21.12.2024):** Thunderstorm with lightning is likely to occur at one or two places over Tamilnadu. |
| Wind warning |  | **Day 1 (18.12.2024) and Day 2 (19.12.2024):** Surface winds, strong and gusty at times, speed reaching 35 to 45 kmph is likely over North Coastal areas of Tamilnadu. |
| Extended range  |  | Week (20-12-2024 to 26-12-2024): Near normal to slightly above normal rainfall is likely over western ghat and adjoining extreme north interior districts and near normal to slightly below normal rainfall is likely over rest of Tamilnadu. |

**Professor and Head**

**Agricultural Research Station**

 **Kovilpatti**