



**AGROMET ADVISORY BULLETIN**  
**ICAR RESEARCH COMPLEX FOR NEH REGION**  
**Nagaland Center, Medziphema-797106**  
**Dimapur, Nagaland**



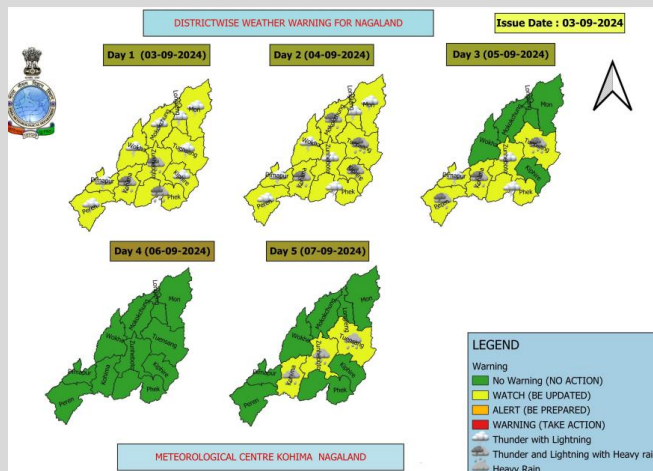
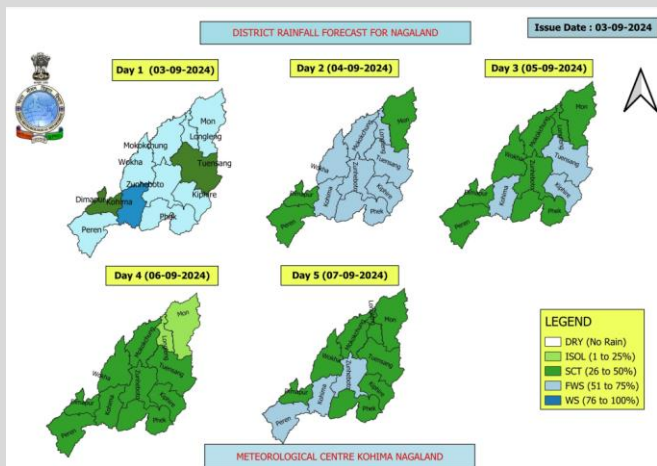
Email: [amfujharnapani@gmail.com](mailto:amfujharnapani@gmail.com)

(Prepared based on District wise Weather Forecast received from RMC, Guwahati)

<b>State Composite Bulletin</b>	<b>Bulletin No: 45/2024-2025</b>	<b>Issuing Date: 3<sup>rd</sup> Sept 2024</b>
---------------------------------	----------------------------------	---

**As per the Extended Range Forecast (ERF) for Nagaland, Manipur, Mizoram and Tripura subdivision from 8<sup>th</sup> to 14<sup>th</sup> Sept. 2024 .**

Rainfall will be **NORMAL**.  
 Maximum temperature will be **NORMAL**.  
 Minimum temperature will be **NORMAL**.



**COMPOSITE STATE WEATHER FORECAST UPTO 08.09.2024**

**DIMAPUR:** Based on the weather forecast received from IMD for next five days – (1). Probability of light rainfall at scattered (26-50%) places the coming days. No weather warning. (2). Till 1<sup>st</sup> there is a significant increase in temperature. Maximum temperature which is expected to be around 35-37 degree C and minimum temperature which is expected to range from 24-25 degree C (3) Morning relative humidity is expected to be in the range from 82-95% and evening relative humidity is expected to be in the range from 68-77%. (4) During this period, average wind speed is expected to be 3-5 km per hour. (5). Partially to mainly cloudy sky will prevail during upcoming 5 days.

**PEREN:** Based on the weather forecast received from IMD for next five days – (1). Probability of rainfall at scattered (26-50%) places the coming days. No weather warning. (2). Till 1<sup>st</sup> there is a significant increase in temperature. Maximum temperature which is expected to be around 29-31 degree C and minimum temperature which is expected to range from 18-19 degree C (3) Morning relative humidity is expected to be in the range from 87-97% and evening relative humidity is expected to be in the range from 68-82%. (4) During this period, average wind speed is expected to be 3-4 km per hour. (5). Partially to mainly cloudy sky will prevail during upcoming 5 days.

**KOHIMA:** Based on the weather forecast received from IMD for next five days – (1). Probability of rainfall at fairly widespread (51-75%) places tomorrow and at scattered (26-50%) places the remaining days. Weather warning on 4th Aug. (2). Maximum temperature which is expected to be around 24-27 degree C and minimum temperature which is expected to range from 17-18 degree C (3) Morning relative humidity is expected to be in the range from 95-98% and evening relative humidity is expected to be in the range from 55-90%. (4) During this period, average wind speed is expected to be 3-5 km per hour. (5). Mainly cloudy sky will prevail during upcoming 5 days.

**PHEK:** Based on the weather forecast received from IMD for next five days – (1). Probability of rainfall at fairly widespread (51-75%) places tomorrow and at scattered (26-50%) places the remaining days. Weather warning on 4th Aug. (2). Maximum temperature which is expected to be around 25-28 degree C

and minimum temperature which is expected to range from 18-19 degree C (3) Morning relative humidity is expected to be in the range from 89-96% and evening relative humidity is expected to be in the range from 44-68%. (4) During this period, average wind speed is expected to be 2-3 km per hour. (5). Mainly cloudy sky will prevail during upcoming 5 days.

**MON:** Based on the weather forecast received from IMD for next five days – (1). Probability of rainfall at fairly widespread (51-75%) places tomorrow and at scattered(26-50%) places the remaining days. Weather warning on 4th Aug. (2). Maximum temperature which is expected to be around 26-29 degree C and minimum temperature which is expected to range from 19-20 degree C (3) Morning relative humidity is expected to be in the range from 83-98% and evening relative humidity is expected to be in the range from 47-74%. (4) During this period, average wind speed is expected to be 4-5 km per hour. (5). Mainly cloudy sky will prevail during upcoming 5 days.

**TUENSANG:** Based on the weather forecast received from IMD for next five days – (1). Probability of rainfall at fairly widespread (51-75%)places tomorrow and at scattered (26-50%) places the remaining days. Weather warning on 4th Aug. (2). Maximum temperature which is expected to be around 22-25 degree C and minimum temperature which is expected to range from 14-15 degree C (3) Morning relative humidity is expected to be in the range from 93-98% and evening relative humidity is expected to be in the range from 48-92%. (4) During this period, average wind speed is expected to be 2-4 km per hour. (5). Mainly cloudy sky will prevail during upcoming 5 days.

**WOKHA:** Based on the weather forecast received from IMD for next five days – (1). Probability of rainfall at fairly widespread (51-75%) places tomorrow and at scattered (26-50%) places the remaining days. Weather warning on 4th Aug. (2). Maximum temperature which is expected to be around 26-29 degree C and minimum temperature which is expected to range from 19-20 degree C (3) Morning relative humidity is expected to be in the range from 93-98% and evening relative humidity is expected to be in the range from 55-91%. (4) During this period, average wind speed is expected to be 3-4 km per hour. (5). Mainly cloudy sky will prevail during upcoming 5 days.

**ZUNHEBOTO:** Based on the weather forecast received from IMD for next five days – (1). Probability of rainfall at fairly widespread (51-75%) places tomorrow and at scattered (26-50%) places the remaining days. Weather warning on 4th Aug. (2). Maximum temperature which is expected to be around 26-29 degree C and minimum temperature which is expected to range from 19-20 degree C (3) Morning relative humidity is expected to be in the range from 96-98% and evening relative humidity is expected to be in the range from 40-91%. (4) During this period, average wind speed is expected to be 2-3 km per hour. (5). Mainly cloudy sky will prevail during upcoming 5 days.

**LONGLENG:** Based on the weather forecast received from IMD for next five days – (1). Probability of rainfall at fairly widespread (51-75%)places tomorrow and at scattered (26-50%) places the remaining days. Weather warning on 4th Aug. (2). Maximum temperature which is expected to be around 25-28 degree C and minimum temperature which is expected to range from 18-19 degree C (3) Morning relative humidity is expected to be in the range from 91-97% and evening relative humidity is expected to be in the range from 47-81%. (4) During this period, average wind speed is expected to be 3-5 km per hour. (5). Mainly cloudy sky will prevail during upcoming 5 days.

### **GENERAL ADVISORY:**

1. Farmer is advised to download Meghdoot app, to access real time weather data. Considering rainfall at fairly widespread places and at scattered places, postpone sowing but promptly see to it that proper drainage channel have been prepared around the nursery bed. 2. Whenever rainfall occurs, try to capture and store the rain water as much as possible. 3. Do not allow livestock to get wet. 4. Provide multivitamins and oral electrolytes to livestock and birds to combat weather stress. 5. Due attention should be given for arrangement to provide daily clean water to animals.

### **LIKELY IMPACTS OF HEAVY RAINFALL ON AGRICULTURE**

CROP	CROP STAGE	IMPACT EXPECTED	ACTIVITY SUGGESTED
<b>TRC/WRC</b>	<b>Maximum Tillering</b>	Landslide or water logging	<ul style="list-style-type: none"> <li>Considering the forecast of heavy rainfall tomorrow at Kohima district, check that the drainage channel is clean to drain off the excess water. Avoid flowing of water from affected field.</li> </ul>
<b>Ginger (Jhum Field)</b>	<b>Vegetative</b>	Increase in disease infection especially rhizome rot.	<ul style="list-style-type: none"> <li>Proper channel should be maintained in the field to drain out excess water.</li> </ul>

			<ul style="list-style-type: none"> <li>Diseased plants should be identified while the crop is in the field. Rhizomes from such plants should not be selected for the seed purpose.</li> </ul>
<b>Orchards (banana)</b>	<b>Fruit formation</b>	Lodging, root rot.	<ul style="list-style-type: none"> <li>Considering heavy rainfall tomorrow, plants which are laden with fruits propping should be done with the help of two bamboos forming a triangle by placing them against the stem on leaning side.</li> </ul>
<b>Mushroom</b>		Will lead to contamination and disease infestation.	Implement strict hygienic practices, including sterilizing equipment and substrates. Use lime or formalin for disinfection and ensure proper ventilation in growing areas
<b>Main crop</b>	<b>Weather based Agro-Advisories</b>		
<b>Maize</b>	KHARIF MAIZE: VEGETATIVE GROWTH: Considering rainfall at fairly widespread and scattered places, those who not finished earthing up, promptly try to finish it the earliest. This will provide additional anchorage to the plants and will prevent the plants from lodging. Clean the drainage channel.		
<b>Lowland paddy</b>	LOWLAND PADDY: MAXIMUM TILLERING STAGE: Considering rainfall the coming days it is a boon for the paddy farmers. Taking advantage of the rainfall, strengthen field bund to prevent seepage of water to other fields and keep the field free from weeds.		
<b>Jhum paddy</b>	(JHUM PADDY.) MILKING STAGE: The prevailing weather over cast skies and frequent drizzles favour its population build up of rice bug which causes the most damage during milking stage that is the filling of the grains. Spray aromatic (like lemon grass) soap solution to expel the rice bug. Indiscriminate insecticide use disrupts biological control resulting in pest resurgence. Remove weeds from fields and surrounding areas. Use nets to capture rice bugs, in the early morning or late afternoon, Preserve beneficial insects (wasps, grasshoppers and spiders.)		
<b>TRC/WRC paddy</b>	TRC/WRC: MAXIMUM TILLERING STAGE: Considering rainfall the coming days avoid flowing of water from affected field. Install yellow sticky traps in the field to monitor the pest population. It reduces pest population, saves cost and is more environment friendly.		
<b>Banana</b>	As there is forecast of rainfall the coming few days with weather warning one or two days , those plants which are laden with fruits propping should be done with the help of two bamboos forming a triangle by placing them against the stem on leaning side.		
<b>Kidney bean</b>	SEEDLING GROWTH IN JHUM FIELD (Kholar): With forecast of rainfall, ensure proper drainage channel and provide mulching with crop residues/green leaves to prevent the seedling topsoil from being washed away.		
<b>Ginger</b>	VEGETATIVE STAGE: As there is forecast of rainfall the coming days, be cautious while working in the field tomorrow. While working remove those infested leaves or plants and destroy it. Earthing up should be carried out after weeding for good rhizome formation followed by mulching with green leaves or organic wastes (crop residue, straw, weeds, grasses etc).		
<b>Soyabean</b>	VEGETATIVE STAGE: Considering forecast of rainfall promptly finish earthing up and as the plants has just entered into vegetative stage see to it that mulching with crop residues/green leaves has been done as advised earlier to prevent topsoil from being washed away and to conserve soil moisture and it also add organic matter to the soil.		
<b>Piggery</b>	During the prevailing weather, housing should be kept dry as far as possible. Prevent water logging near pig farm to prevent mosquito breeding which is a carrier of Japanese encephalitis.		
<b>Poultry</b>	As rainfall is expected the coming days, for backyard birds protect birds from rains and daily provide clean drinking water. Considering forecast of rainfall the coming days, for those birds which are kept in enclosure promptly cleaned out the wet litter out of the house and thick padding should be turned over to keep it dry. Prevent feed ingredients from getting wet.		

<b>Fishery</b>	Considering forecast of rainfall, farmers are advised to maintain proper drainage around the fish pond to stop entry of dirty and muddy water from the catchment area into the pond. Raise net fencing around pond embankment to prevent escape of fish during flood time.
<b>Cattle</b>	Considering forecast of rainfall, do not allow the animals to get wet and never let them graze in places with standing water. Always provide free access to clean drinking water. During this time see to it that the floor of the animal shed should be clean and dry to prevent foot rot and other diseases.

### **Agromet Advisories issued by DAMU Mokokchung**

**MOKOKCHUNG:** During the next 5 days: Forecast of moderate to light rain (16-4 mm) at fairly widespread to scattered places with day temperature 27-30°C & night temperature 20-21°C; cloudy sky. At isolated places there is warning of thunderstorm with lightning and heavy rain very likely till 4th September. Average humidity during morning hours upto 98% and average humidity during evening hours 76%. Predominant wind direction from Southerly to South Easterly at a prevailing maximum speed of 4 km per hour.

Main crop	Weather based Agro-Advisories
<b>Rice</b>	(Wet Rice Cultivation) Panicle Initiation to Heading Stage: Chance of over flooding and damage to bunds due to heavy rain. Repair the field bunds so that sufficient water is flooded in the field upto a level of 2-5 cm. If there is sufficient water than divert the water from the field for few days to prevent crop damage.
<b>Colocasia</b>	Corm growth stage: With conducive weather conditions, likely damage of leaves due to leaf webber larva. The larvae rolls the leaves and feeds on them. Collect the leaves and bury them in soil. Perform light earthing up to prevent exposure of the growing tubers which would otherwise turn green.
<b>Ginger</b>	Rhizome development stage: Chance of Leaf Spot/Leaf Blight disease development and spread due to heavy rainfall accompanied by high humidity. (Symptom: White spindle shaped spots on leaves with extensive discoloration and finally dries up). Clean cultivation, collection and burning of diseased and dead leaves and other plant parts reduce the inoculum.
<b>Tapioca</b>	Elongation stage: Prevailing weather condition is conducive for mealy bug/aphids infestation, Monitor for mealy bug or leaf curls. In presence of the said pests remove and destroy by burning at initial stage of infestation and if required spray neem oil formulations @8ml/L water.
<b>Orange</b>	Established Orchard: Fruit development-With prevailing forecast, chance of lodging of heavy bearing plants during thunderstorm/heavy rain. Provide support to prevent lodging. Powdery mildew disease very likely due to prevailing high temperature and humidity. A whitish powdery growth is visible on young leaves and green parts-fruit, twigs. Spray diluted cattle urine for 2-3 times in an interval of 5 days (Preparation: mix 1 part cattle urine in 5 parts water) or sulfex @2.5 g/L water at the time when new leaves appear.
<b>Common fish</b>	Chance of fishery pond submergence at low lying areas. Surround the fish pond with the nylon net immediately so that the growing fishes do not escape from the fish pond.
<b>Chicken</b>	Prevailing high humidity may cause ammonia fumes which irritate the respiratory tract and eyes. Therefore, provide good ventilation. Heat stress very likely due to hot weather. provide ample amount of clean drinking water every day.

### **Agromet Advisories issued by DAMU Kiphire**

**KIPHIRE:** Probability of light to moderate rainfall. Maximum temp likely to be 27.0-30.0°C and Minimum temp 20.0-21.0°C . Sky is likely to be partly cloudy to mainly cloudy sky the coming week. Relative humidity is likely to range from 82-95 % in the morning and 41-61 % during the evening hours. The wind direction shows towards easterly with a wind speed of 2-3 kmph .

Main crop	Weather based Agro-Advisories
<b>Chilli</b>	Stagnation of water should not be allowed in nursery beds and fields in order to avoid fungal

	infection. The field should have good drainage and be free from infected plant debris.
<b>Banana</b>	Make sure there no stagnant water bodies in and around the field as it may lead to rotting of young banana suckers.
<b>Brinjal</b>	Disease infested leaves should be removed from the field.
<b>Fishery</b>	Excess water in the fishery ponds should be drained out. Do not let large animals such as cows, buffalo graze on the banks of your pond, they are too heavy and may break the banks down.
<b>Chicken</b>	Poultry houses should be well roofed, preventing any indecent rains from falling into the coop. Make sure that the chicken coop are not stagnant with water as this may lead to diarrhea related issues. Proper drainage should be made around the area.