



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Experimental Agromet Advisory Services”

MANIPUR BULLETIN

24th December, 2009

Significant past weather for the preceding bi-weekly of Imphal West Dist. (22nd to 24th Dec., '09)

Total rainfall (mm)	0.0 mm
Maximum temperature range (°C)	(21.5-22.3)
Minimum temperature range (°C)	(3.6-4.0)
Mean Relative Humidity (%)	79.3 (morning), 68.3 (evening)
Wind speed (kmph)	1.6-2.5

EAAS, ICAR Manipur Centre in association with IMD, Pune; RMC, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecast for the next five (5) days, i.e., from 25th to 29th December, '09, for nine district of **Manipur** are given below:

Weather Forecast for 25th Dec., '09

Parameters	UKHRUL	SENAPATI	BISHNUPUR	THOUBAL	CHANDEL
Rainfall (mm)	0	0	0	0	0
Max. temp. (°C)	17	17	19	19	23
Min. temp. (°C)	3	3	6	6	12
Total cloud cover (Okta)	Partly Cloudy	Partly Cloudy	Mainly Cloudy	Cloudy	Mainly Cloudy
Max. RH (%)	90	94	100	100	96
Min. RH (%)	59	54	70	66	70
Wind speed (kmph)	6	4	2	6	7
Wind direction (deg.)	Westerly	Southerly	South Westerly	Westerly	Westerly

Parameters	TAMENGLONG	CHURACHANDPUR	IMPHAL EAST	IMPHAL WEST
Rainfall (mm)	0	0	0	Not Available
Max. temp. (°C)	21	19	19	
Min. temp. (°C)	8	8	4	
Total cloud cover (Okta)	Partly Cloudy	Mainly Cloudy	Partly Cloudy	
Max. RH (%)	97	99	96	
Min. RH (%)	71	72	56	
Wind speed (kmph)	2	4	4	
Wind direction (deg.)	Northerly	Northerly	North Westerly	

Weather Forecast for 26th Dec., '09

Parameters	UKHRUL	SENAPATI	BISHNUPUR	THOUBAL	CHANDEL
Rainfall (mm)	0	0	0	0	0
Max. temp. (°C)	16	16	16	17	23
Min. temp. (°C)	2	2	5	4	9
Total cloud cover (Okta)	Clear	Mainly Clear	Mainly Clear	Clear	Clear
Max. RH (%)	87	90	97	95	90
Min. RH (%)	69	56	70	53	71
Wind speed (kmph)	4	4	4	6	6
Wind direction (deg.)	Southerly	Southerly	Southerly	Westerly	South Westerly

Parameters	TAMENGLONG	CHURACHANDPUR	IMPHAL EAST	IMPHAL WEST
Rainfall (mm)	0	0	0	Not Available
Max. temp. (°C)	19	17	17	
Min. temp. (°C)	6	5	3	
Total cloud cover (Okta)	Mainly Clear	Mainly Clear	Mainly Clear	
Max. RH (%)	97	96	94	
Min. RH (%)	71	74	57	
Wind speed (kmph)	2	2	4	
Wind direction (deg.)	Northerly	Northerly	Northerly	

Weather Forecast for 27th Dec., '09

Parameters	UKHRUL	SENAPATI	BISHNUPUR	THOUBAL	CHANDEL
Rainfall (mm)	0	0	0	0	0
Max. temp. (°C)	16	16	17	17	22
Min. temp. (°C)	2	2	5	4	9
Total cloud cover (Okta)	Mainly Cloudy	Mainly Clear	Clear	Clear	Partly Cloudy
Max. RH (%)	90	96	89	89	90
Min. RH (%)	74	55	66	60	78
Wind speed (kmph)	4	4	2	2	4
Wind direction (deg.)	Southerly	Northerly	South Easterly	Westerly	Westerly

Parameters	TAMENGLONG	CHURACHANDPUR	IMPHAL EAST	IMPHAL WEST
Rainfall (mm)	0	0	0	Not Available
Max. temp. (°C)	19	18	17	
Min. temp. (°C)	6	4	3	
Total cloud cover (Okta)	Mainly Clear	Clear	Clear	
Max. RH (%)	97	95	90	
Min. RH (%)	71	79	49	
Wind speed (kmph)	2	2	4	
Wind direction (deg.)	Northerly	North Westerly	Northerly	

Weather Forecast for 28th Dec, '09

Parameters	UKHRUL	SENAPATI	BISHNUPUR	THOUBAL	CHANDEL
Rainfall (mm)	0	0	0	0	0
Max. temp. (°C)	16	17	18	18	22
Min. temp. (°C)	2	2	5	5	9
Total cloud cover (Okta)	Partly Cloudy	Mainly Clear	Mainly Clear	Clear	Partly Cloudy
Max. RH (%)	96	97	96	92	94
Min. RH (%)	75	50	59	67	81
Wind speed (kmph)	2	4	2	2	4
Wind direction (deg.)	Southerly	Northerly	South Easterly	North Westerly	Westerly

Parameters	TAMENGLONG	CHURACHANDPUR	IMPHAL EAST	IMPHAL WEST
Rainfall (mm)	0	0	0	Not Available
Max. temp. (°C)	20	18	18	
Min. temp. (°C)	6	4	3	
Total cloud cover (Okta)	Mainly Clear	Clear	Mainly Clear	
Max. RH (%)	98	96	93	
Min. RH (%)	71	80	47	
Wind speed (kmph)	4	2	4	
Wind direction (deg.)	Southerly	Southerly	Northerly	

Weather Forecast for 29th Dec., '09

Parameters	UKHRUL	SENAPATI	BISHNUPUR	THOUBAL	CHANDEL
Rainfall (mm)	0	0	0	0	0
Max. temp. (°C)	17	18	19	19	23
Min. temp. (°C)	2	2	5	5	9
Total cloud cover (Okta)	Partly Cloudy	Mainly Clear	Partly Cloudy	Clear	Partly Cloudy
Max. RH (%)	93	98	100	98	96
Min. RH (%)	72	48	59	58	80
Wind speed (kmph)	4	4	2	6	4
Wind direction (deg.)	South Westerly	Easterly	Southerly	Westerly	Westerly

Parameters	TAMENGLONG	CHURACHANDPUR	IMPHAL EAST	IMPHAL WEST
Rainfall (mm)	0	0	0	Not Available
Max. temp. (°C)	21	19	19	
Min. temp. (°C)	7	4	4	
Total cloud cover (Okta)	Partly Cloudy	Partly Cloudy	Mainly Clear	
Max. RH (%)	97	98	92	
Min. RH (%)	71	79	41	
Wind speed (kmph)	4	2	4	
Wind direction (deg.)	Northerly	Northerly	Northerly	

**** Sunrise and sunset timings for Imphal:**

	25/12/09	26/12/09	27/12/09	28/12/09	29/12/09
Sunrise	5:56am.	5:56am.	5:57am.	5:57am.	5:58am.
Sunset	4:32pm.	4:33pm.	4:34pm.	4:34pm.	4:35pm.

Agrometeorological Advisories:

- **Rice:** All the stored rice grains should be well dried and cleaned to avoid any chance of before storage. To prevent the infestation of moths and insects, godowns/granaries/bins must be well cleaned and walls be sprayed with 1% Malathion before storage. Proper care must be taken to prevent from the infestation of rodents.
- **Field pea:** Nipping of young shoots of pea should not be practiced it will reduce the pod yield. As the weather is dry these days, light irrigation may be given in the field where moisture content is low so that proper growth is attained. For seed purpose, retain the early pods on some selected plants.
- **Rabi maize as intercrop:** Intercropping of maize along with *rabi* crops like rapeseed, peas, potatoes will give an additional income after the *rabi* harvest and before the *kharif* rice in the valley areas where irrigation facilities are available. Recommended varieties of maize like Pusa Composite-3 or HQPM-1 may be used at spacing of 20-30cm in rows of 50 cm apart.
- **Potato:** Farmers are advised to sow Kufri Giriraj or K. Megha or K. Jyoti (recommended varieties of potato for Manipur) in furrows. As the weather is dry these days, light irrigation may be given in the field where moisture content is low so that proper growth is attained.
- **Zero tillage Rape seed:** Fertilization with foliar sprays can be done.

Horticulture

- There is possibility of spreading of diseases, particularly leaf spot. Thus, in all fruit crops, one spray of Dithane M45 (2 g/l) is suggested.
- In case of banana, Sigatoka leaf spot may be observed. For effective management, spray Calixin (1 ml/l) along with sticker.
- Field preparation for transplantation of onion should be started. Application of fully decomposed FYM should be done 15 days before transplantation.
- For purple blotch disease of onion, spray Dithane M-45 or Kavach (2 g/l).
- In tomato late blight and buck eye rot, in onion *Phytophthora* rot and in brinjal bacterial wilt and *phytophthora* fruit rot may be observed. Spraying of Mencozeb @ 2 gm per litre of water at weekly interval is advised when the diseases mentioned above are detected.
- This is the ideal time for harvesting of colocasia.
- The ginger and turmeric can be harvested if the tops become yellow and dry.
- Do necessary hoeing and earthing up in leafy vegetables.
- **Fish:**
 - Liming @ 200kg / ha is very essential these days in the ponds where fish culture is done as the temperature is falling and also to prevent diseases in fishes.
- **Cattle :**
 - Vaccinate against B.Q. disease especially in 6 months to 2.5 years old cattle. It generally occurs during Nov-Dec.
- **Poultry:**
 - All folks of birds must be vaccinated against Ranikhet disease if they were not vaccinated earlier.
 - For age group of 28-32 days in Dual purpose birds F₁-Strain/ Lasota Strain should be given orally.
 - For layer birds, at 7-12 days F₁-Strain/ Lasota Strain and at 45-60 days R₂B vaccines must be given.
 - Administration of Amprolium Hydrochloride (Amprolium powder) @ 1.0 g / lit of drinking water for 5-7 days to prevent Coccidiosis may be done.
 - Energy supplement feeds should be added in the ration.
- **Pig:**
 - Vaccinate against Swine fever disease.
 - De-worming must be advocated.

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