



# AGROMET ADVISORY SERVICES

**ICAR Research Complex for NEH Region  
Umroi Road, Umiam – 793 103 Meghalaya**



## Weather of previous week (1<sup>st</sup>-5<sup>th</sup> Mar'2010)

Max Temp °C	Min Temp °C	Wind Speed (Kmph)	Sunshine (hrs)	Evap.(mm)	Rainfall (mm)
22.5-23.5	6.5-8.5	3.0-5.0	8.5-9.5	3.0-4.2	0.0

## Weather Forecast (6<sup>th</sup>-10<sup>th</sup> Mar'2010)

ICAR, Umiam in association with India Meteorological Department (IMD), Ministry of Earth Sciences, Govt. of India, New Delhi & Northern Hemisphere Analysis Centre, New Delhi reports the weather forecast of seven different districts of Meghalaya for the next five (5) days here below.

### District: West Garo Hills

Parameters	Day-1 06/03/10	Day-2 07/03/10	Day-3 08/03/10	Day-4 09/03/10	Day-5 10/03/10
Rainfall (mm)					
Max Temp (°C)					
Min Temp (°C)					
Total Cloud Cover (Okta)					
Max Relative Humidity (%)					
Min Relative Humidity (%)					
Wind Speed (Kmph) *					
Wind Direction (Degree) *	200(S)	140(SE)	140(SE)	180(S)	240(SW)
7 Days cumulative rain(mm) for 06/03 to 12/03/2010			0.0mm		

### District: East Garo Hills

Parameters	Day-1 06/03/10	Day-2 07/03/10	Day-3 08/03/10	Day-4 09/03/10	Day-5 10/03/10
Rainfall (mm)	0.0	0.0	0.0	0.0	0.0
Max Temp (°C)	35.0	34.0	35.0	36.0	34.0
Min Temp (°C)	18.0	19.0	20.0	21.0	22.0
Total Cloud Cover (Okta)	2	4	2	5	2
Max Relative Humidity (%)	54	62	64	55	46
Min Relative Humidity (%)	30	32	33	28	27
Wind Speed (Kmph) *	009	007	007	013	011
Wind Direction (Degree) *	260(W)	240(SW)	230(SW)	270(W)	250(W)
7 Days cumulative rain(mm) for 06/03 to 12/03/2010			0.0mm		

### District: West Khasi Hills

Parameters	Day-1 06/03/10	Day-2 07/03/10	Day-3 08/03/10	Day-4 09/03/10	Day-5 10/03/10
Rainfall (mm)	0.0	0.0	0.0	0.0	0.0
Max Temp (°C)	30.0	29.0	29.0	29.0	30.0
Min Temp (°C)	16.0	16.0	19.0	18.0	17.0
Total Cloud Cover (Okta)	1	3	4	5	1
Max Relative Humidity (%)	54	84	93	98	47
Min Relative Humidity (%)	42	66	76	40	41
Wind Speed (Kmph)*	011	007	009	009	011
Wind Direction (Degree)*	190(S)	120(SE)	180(S)	190(S)	170(S)
7 Days cumulative rain(mm) for 06/03 to 12/03/2010			4.00mm		

\*Wind data reading are for 00UTC and 12UTC

### District: East Khasi Hills

Parameters	Day-1 06/03/10	Day-2 07/03/10	Day-3 08/03/10	Day-4 09/03/10	Day-5 10/03/10
Rainfall (mm)	0.0	0.0	0.0	0.0	0.0
Max Temp (°C)	27.0	28.0	28.0	28.0	28.0
Min Temp (°C)	17.0	17.0	16.0	17.0	17.0
Total Cloud Cover (Okta)	1	3	3	3	2
Max Relative Humidity (%)	54	80	82	82	55



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80Min Relative Humidity (%)	49	71	81	42	43
Wind Speed (Kmph) *	013	077	011	011	009
004Wind Direction (Degree) *	220(SW)	250(W)	250(W)	230(SW)	210(SW)
7 Days cumulative rain(mm) for 06/03 to 12/03/2010			9.0mm		

\*Wind data reading are for 00UTC and 12UTC

### District: Jaintia Hills

Parameters	Day-1 06/03/10	Day-2 07/03/10	Day-3 08/03/10	Day-4 09/03/10	Day-5 10/03/10
Rainfall (mm)	0.0	4.0	5.0	12.0	5.0
Max Temp (°C)	29.0	30.0	27.0	25.0	29.0
Min Temp (°C)	17.0	20.0	20.0	19.0	20.0
Total Cloud Cover (Okta)	5	7	7	7	3
Max Relative Humidity (%)	89	96	97	96	86
Min Relative Humidity (%)	57	85	94	77	60
Wind Speed (Kmph) *	009	009	011	009	006
004Wind Direction (Degree) *	190(S)	220(SW)	180(S)	200(S)	200(S)
7 Days cumulative rain(mm) for 06/03 to 12/03/2010			28.0mm		

\*Wind data reading are for 00UTC and 12UTC

### District: Ri-Bhoi

Parameters	Day-1 06/03/10	Day-2 07/03/10	Day-3 08/03/10	Day-4 09/03/10	Day-5 10/03/10
Rainfall (mm)	0.0	0.0	0.0	0.0	0.0
Max Temp (°C)	31.0	31.0	31.0	31.0	32.0
Min Temp (°C)	17.0	15.0	15.0	18.0	19.0
Total Cloud Cover (Okta)	0	0	0	0	0
Max Relative Humidity (%)	43	62	59	55	40
Min Relative Humidity (%)	36	40	47	29	31
Wind Speed (Kmph) *	011	006	007	013	011
02Wind Direction (Degree) *	240(SW)	170(S)	180(S)	240(SW)	220(SW)
7 Days cumulative rain(mm) for 06/03 to 12/03/2010			0.0mm		

\*Wind data readings are for 00UTC and 12UTC

### District: South Garo Hills

Parameters	Day-1 06/03/10	Day-2 07/03/10	Day-3 08/03/10	Day-4 09/03/10	Day-5 10/03/10
Rainfall (mm)	0.0	0.0	0.0	0.0	0.0
Max Temp (°C)	32.0	32.0	31.0	32.0	32.0
Min Temp (°C)	16.0	16.0	19.0	18.0	19.0
Total Cloud Cover (Okta)	1	8	7	4	0
Max Relative Humidity (%)	72	95	97	100	49
46M70i42n38 41Relative Humidity (%)	34	37	36	30	33
Wind Speed (Kmph) *	009	007	007	007	004
Wind Direction (Degree) *	110(E)	100(E)	110(E)	110(E)	120(SE)
7 Days cumulative rain (mm) for 06/03 to 12/03/2010			0.0mm		

## State & Stage of Crop & Vegetables

Boro rice is at transplanting stage, early transplanted Boro rice at tillering stage, Wheat is at tillering, Rapeseed & Mustard is at flowering and pod formation stage. Arhar is at harvesting stage, Pea, Lentil & Potato is at vegetative stage, Vegetables are at vegetative stage.

## Agro Advisories for the next 5days (6<sup>th</sup> -10<sup>th</sup> March'2010)

Rice:

- Irrigation should be given to seedbed frequently during morning hours and apply the fuel wood ash, straw ash, cattle dung ash etc. on seedlings periodically to avoid cold injury in West Khasi, Jaintia and Upper East Khasi Hills



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- Transplantation of Boro-rice may be continued in Ri-Bhoi Districts.
- For nursery purpose, use varieties with cold tolerance in the early vegetative phase.
- Grow the seedlings in shade and in low-lying areas near the source of irrigation.
- Raise the seedlings under removable polythene cover/polythene tunnel to avoid yellowing of leaves due to cold injury/fog.
- Under severe and continuous foggy condition, sprinkle water on the seedlings may be given

## Maize:

- Harvesting of Rabi Maize in Ri-Bhoi, East Khasi hill and South Garo District may be continued.
- Last dose of fertilizer application in maize followed by earthing up will be helpful to reduce lodging and enhance the productivity.

## Wheat:

- Light irrigation may be given to Wheat in Low lands of Ri-Bhoi District.
- Apply first split dose of N @ 25 – 30 kg / ha at crown root initiation stage (20 – 25 days after sowing) and second split dose of N @ 25 – 30 kg / ha at tillering stage (40 – 45 days after sowing of wheat after the light shower.
- The mechanical weeders such as hand hoe and wheel hoe in wider row spaced crops at 30 - 35 days after sowing may be operated.

## Vegetables:

- In Ri-Bhoi, East Khasi and west Khasi Hill District, there is no rainfall and frost is falling during night. That is why, mulching of crops with polythene and crop residue during night is suggested and drip irrigation should be preferred to prevent Rabi crops from frost as the frost damages crops during winters, which in turn reduces the crop yield.
- Light irrigation by sprinklers may be given in vegetables particularly in crops like tomato, chillies, brinjal etc. for protection against winter injury wherever frost affects the crops.
- As there is a rise in temperature soon after low temperature in Ri-Bhoi, East Khasi and South Garo District, there is possibility of late blight in potato, which can be controlled by prophylactic spray of Di-ethane M-45 (2.5ml/l) or Curzate (3 ml/l).

## Ginger & turmeric:

- In Ri-Bhoi District, ginger and turmeric may be drenched the beds with Mancozeb (0.31%) or Metalaxyl- mancozeb (0.05%) may be given.

## Agro-forestry:

- Transplanting of fodder grasses like cock foot, perennial rye etc. on field risers may be done in Ri-Bhoi.
- Trees on agriculture lands may be pruned to open up canopy for light penetration before crop sowing. Weed biomass and leguminous tree leaves may be lopped and used for composting
- Silvi-pasture grasses may be preserved in all the districts.

## Fishery:

- Temperature has fallen considerably in East Khasi, West Khasi, Jaintia and Ri-Bhoi district. Hence, Farmers should reduce the feeding rate by 25-30% in grow-out ponds.
- Rate of feeding should be monitored daily depending upon the temperature in all the districts of Meghalaya.
- Stocking of Nursery ponds should be initiated immediately West and East Garo district wherever seed is available.
- Fish stock should be checked for presence of parasites and ulcers in the body or fin. A dose of lime @ 200kg/ha per meter water depth may ensure good environment and further check on these infections.
- Farmers of Ri-Bhoi, West Khasi and East Khasi Hill District, engaged in carp culture should reduce/modify daily feeding ration as per temperature of the region and biomass in the pond.



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- Water depth of at least 1 meter should be maintained in ponds.

## Animals:

- Animals to be protected from exposure to cold by housing in sheds with thatched roofing especially in the night and covering the windows with gunny bags in all the districts of Meghalaya.
- Animals and feeds are to be shifted to higher plains / elevated areas immediately and feeds to be stored in dry place in East Khasi, West Khasi and Ri-Bhoi district. Wet feed be dried to avoid fungal contamination before feeding.
- Vaccination schedule against FMD, Blue tongue (BT) in large ruminants, and PPR in small ruminants be carried out in hot humid areas South Garo and Jaintia Hills.
- In Ri-bhoi, West and East Garo hill District areas animals to be housed in dry place and dry bedding (straw) to be provided to young animals to check Pneumonia.
- For lean period, Napier, Para and Maize grasses may be preserved in silo pits.
- 10% extra dry matter (DM) should be provided over and above the total requirement to fulfill the extra energy requirement in winter.
- Clean drinking water to be provided to animals and water troughs should be regularly cleaned
- Conservation of surplus fodder / greens (in the form of hay, silage) to be done.

## Soil & Water Conservation:

- The renovation of all the water harvesting structures like check dams, percolation ponds, lined farm ponds, repair of sluice, weirs etc. in order to store maximum rain water and use for pre sowing irrigation of rabi crops and also recharging of ground water in East Khasi and Jaintia Hills.
- Necessary activities may be taken up for development and construction of rain water harvesting structures like farm pond. Take up repair of farm ponds, cleaning of drains.
- Take up inter terrace land management practices like compartmental bending etc. especially in the districts of Ri-Bhoi, East Khasi and West Khasi Hills ,

*Pulakabha Chowdhury*

(P. Chowdhury)  
Technical Officer

For Internet version please refer following websites

[www.indiaweatherwatch.org](http://www.indiaweatherwatch.org), [www.meghalaya.nic.in](http://www.meghalaya.nic.in), [www.ncmrwf.gov.in](http://www.ncmrwf.gov.in), [www.imd.ernet.in](http://www.imd.ernet.in), [www.imd.gov.in](http://www.imd.gov.in), [www.icarneh.ernet.in](http://www.icarneh.ernet.in)

*For any agricultural & crop related query please dial 1551 (Time: 6.00AM –10.00PM)*