



Weather of previous week (25<sup>th</sup>-27<sup>th</sup>July'2010)

| Max Temp°C | Min Temp °C | Wind Speed<br>(Kmph) | Sunshine<br>(hrs) | Evap.(mm) | Rainfall (mm) |
|------------|-------------|----------------------|-------------------|-----------|---------------|
| 25.3-28.5  | 19.5-20.6   | 0.8-1.3              | 0.0-2.2           | 1.2-1.7   | 60.0          |

Weather Forecast (28<sup>th</sup>July-1<sup>st</sup>Aug'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    | Day-2    | Day-3    | Day-4    | Day-5    |
|--|----------|----------|----------|----------|----------|
|  | 28/07/10 | 29/07/10 | 30/07/10 | 31/07/10 | 01/08/10 |
| Rainfall (mm)                                      | 6.0      | 10.0     | 23.0     | 21.0     | 19.0     |
| Max Temp (°C)                                      | 33.0     | 33.0     | 32.0     | 30.0     | 30.0     |
| Min Temp (°C)                                      | 26.0     | 26.0     | 25.0     | 25.0     | 25.0     |
| Total Cloud Cover (Okta)                           | 8        | 8        | 8        | 8        | 8        |
| Max Relative Humidity (%)                          | 92       | 95       | 97       | 98       | 98       |
| Min Relative Humidity (%)                          | 74       | 87       | 92       | 84       | 83       |
| Wind Speed (Kmph) *                                | 007      | 011      | 015      | 011      | 007      |
| Wind Direction (Degree) *                          | 150(SE)  | 170(S)   | 160(S)   | 140(SE)  | 160(S)   |
| 7 Days cumulative rain(mm) for 28/07 to 03/08/2010 |          |          |          | 95.0mm   |          |

**District: East Garo Hills**

| Parameters   | Day-1    | Day-2    | Day-3    | Day-4    | Day-5    |
|--|----------|----------|----------|----------|----------|
|  | 28/07/10 | 29/07/10 | 30/07/10 | 31/07/10 | 01/08/10 |
| Rainfall (mm)                                      | 19.0     | 10.0     | 17.0     | 31.0     | 20.0     |
| Max Temp (°C)                                      | 33.0     | 34.0     | 34.0     | 33.0     | 34.0     |
| Min Temp (°C)                                      | 26.0     | 26.0     | 26.0     | 27.0     | 27.0     |
| Total Cloud Cover (Okta)                           | 5        | 8        | 8        | 8        | 8        |
| Max Relative Humidity (%)                          | 96       | 94       | 95       | 95       | 95       |
| Min Relative Humidity (%)                          | 69       | 72       | 81       | 80       | 79       |
| Wind Speed (Kmph) *                                | 077      | 006      | 009      | 013      | 009      |
| Wind Direction (Degree) *                          | 100(E)   | 160(S)   | 160(S)   | 100(E)   | 110(E)   |
| 7 Days cumulative rain(mm) for 28/07 to 03/08/2010 |          |          |          | 137.0mm  |          |

**District: West Khasi Hills**

| Parameters   | Day-1    | Day-2    | Day-3    | Day-4    | Day-5    |
|--|----------|----------|----------|----------|----------|
|  | 28/07/10 | 29/07/10 | 30/07/10 | 31/07/10 | 01/08/10 |
| Rainfall (mm)                                      | 5.0      | 7.0      | 14.0     | 12.0     | 16.0     |
| Max Temp (°C)                                      | 31.0     | 30.0     | 28.0     | 26.0     | 27.0     |
| Min Temp (°C)                                      | 24.0     | 24.0     | 23.0     | 23.0     | 23.0     |
| Total Cloud Cover (Okta)                           | 8        | 8        | 8        | 8        | 8        |
| Max Relative Humidity (%)                          | 98       | 99       | 100      | 99       | 100      |
| Min Relative Humidity (%)                          | 88       | 93       | 98       | 96       | 94       |
| Wind Speed (Kmph)*                                 | 006      | 011      | 013      | 009      | 007      |
| Wind Direction (Degree)*                           | 160(S)   | 170(S)   | 160(S)   | 150(SE)  | 160(S)   |
| 7 Days cumulative rain(mm) for 28/07 to 03/08/2010 |          |          |          | 61.0mm   |          |

**District: East Khasi Hills**

| Parameters   | Day-1    | Day-2    | Day-3    | Day-4    | Day-5    |
|--|----------|----------|----------|----------|----------|
|  | 28/07/10 | 29/07/10 | 30/07/10 | 31/07/10 | 01/08/10 |
| Rainfall (mm)                                      | 6.0      | 7.0      | 14.0     | 11.0     | 17.0     |
| Max Temp (°C)                                      | 30.0     | 29.0     | 28.0     | 26.0     | 27.0     |
| Min Temp (°C)                                      | 23.0     | 23.0     | 22.0     | 22.0     | 22.0     |
| Total Cloud Cover (Okta)                           | 8        | 8        | 8        | 8        | 8        |
| Max Relative Humidity (%)                          | 94       | 96       | 97       | 98       | 97       |
| 80Min Relative Humidity (%)                        | 87       | 93       | 96       | 93       | 93       |
| Wind Speed (Kmph) *                                | 004      | 009      | 009      | 007      | 006      |
| 004Wind Direction (Degree) *                       | 260(W)   | 230(SW)  | 190(S)   | 250(W)   | 200(S)   |
| 7 Days cumulative rain(mm) for 28/07 to 03/08/2010 |          |          |          | 64.0mm   |          |



**District: Jaintia Hills**

| Parameters   | Day-1<br>28/07/10 | Day-2<br>29/07/10 | Day-3<br>30/07/10 | Day-4<br>31/07/10 | Day-5<br>01/08/10 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm)                                      | 6.0               | 7.0               | 13.0              | 10.0              | 17.0              |
| Max Temp (°C)                                      | 33.0              | 33.0              | 30.0              | 28.0              | 29.0              |
| Min Temp (°C)                                      | 25.0              | 25.0              | 25.0              | 24.0              | 24.0              |
| Total Cloud Cover (Okta)                           | 8                 | 8                 | 8                 | 8                 | 8                 |
| Max Relative Humidity (%)                          | 98                | 97                | 99                | 99                | 99                |
| Min Relative Humidity (%)                          | 86                | 89                | 95                | 94                | 88                |
| Wind Speed (Kmph) *                                | 006               | 015               | 013               | 011               | 007               |
| 004Wind Direction (Degree) *                       | 250(W)            | 240(SW)           | 200(S)            | 200(S)            | 190(S)            |
| 7 Days cumulative rain(mm) for 28/07 to 03/08/2010 |                   |                   |                   | 64.0mm            |                   |

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

**District: Ri-Bhoi**

| Parameters   | Day-1<br>28/07/10 | Day-2<br>29/07/10 | Day-3<br>30/07/10 | Day-4<br>31/07/10 | Day-5<br>01/08/10 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm)                                      | 7.0               | 7.0               | 13.0              | 11.0              | 13.0              |
| Max Temp (°C)                                      | 31.0              | 33.0              | 30.0              | 27.0              | 29.0              |
| Min Temp (°C)                                      | 25.0              | 24.0              | 24.0              | 24.0              | 24.0              |
| Total Cloud Cover (Okta)                           | 8                 | 8                 | 8                 | 8                 | 8                 |
| Max Relative Humidity (%)                          | 87                | 92                | 95                | 95                | 95                |
| Min Relative Humidity (%)                          | 76                | 92                | 93                | 87                | 86                |
| Wind Speed (Kmph) *                                | 004               | 004               | 004               | 002               | 002               |
| 00602Wind Direction (Degree) *                     | 210(SW)           | 270(W)            | 130(SE)           | 250(W)            | 210(SW)           |
| 7 Days cumulative rain(mm) for 28/07 to 03/08/2010 |                   |                   |                   | 60.0mm            |                   |

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

**District: South Garo Hills**

| Parameters  | Day-1<br>28/07/10 | Day-2<br>29/07/10 | Day-3<br>30/07/10 | Day-4<br>31/07/10 | Day-5<br>01/08/10 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rainfall (mm)   | 4.0               | 6.0               | 15.0              | 13.0              | 15.0              |
| Max Temp (°C)   | 31.0              | 31.0              | 29.0              | 28.0              | 28.0              |
| Min Temp (°C)   | 25.0              | 25.0              | 24.0              | 24.0              | 24.0              |
| Total Cloud Cover (Okta)                                | 8                 | 8                 | 8                 | 8                 | 8                 |
| Max Relative Humidity (%)                               | 95                | 100               | 100               | 100               | 100               |
| 46M70i42n38 41Relative Humidity (%)                     | 83                | 95                | 97                | 94                | 92                |
| Wind Speed (Kmph) *                                     | 006               | 007               | 011               | 004               | 006               |
| Wind Direction (Degree) *                               | 100(E)            | 150(SE)           | 130(SE)           | 90(E)             | 130(SE)           |
| 7 Days cumulative rain (mm) for for 28/07 to 03/08/2010 |                   |                   |                   | 62.0mm            |                   |

State & Stage of Crop & Vegetables

Sowing of Sali rice, Ahu rice at transplanting stage, Jute and Maize at harvesting, Wheat is at harvesting stage. Arhar is at maturity stage, Potato is at harvesting stage. Sugarcane is at harvesting stage, Mustard, lentil and pea are at maturity/harvesting stage, Rapeseed & Mustard is at flowering and pod formation stage. Pea, Lentil is at pod formation/maturity stage. Vegetables are at vegetative flowering/fruitletting stage

Agro Advisories for the next 5days (28<sup>th</sup>July-1<sup>st</sup>Aug '2010)

Rice:

- **System of Rice Intensification (SRI)\*** method can be adopted in Ri-Bhoi, East Khasi, West Khasi and South Garo District. RANJEET or NAVEEN variety of rice can be sown under this type of cultivation.
- Maintain 3-5 cm stagnant water in Boro rice in Ri-Bhoi and Garo hills District.
- Seed bed preparation and sowing of sali rice may be undertaken, in Ri-Bhoi, West Garo, East Garo and South Garo Hills Districts.



- Transplanted ahru rice may also be raised in East Khasi, West Khasi and Jaintia Hills dist. where irrigation facilities are available.

Maize:

- Last dose of fertilizer application in maize followed by earthing up will be helpful to reduce lodging and enhance the productivity.
- Due to medium to heavy rainfall is predicted in East Khasi, West Khasi and Jaintia district, application of last dose of fertilizer should be given after the predicted rain.

Wheat:

- First split dose of N @25–30 kg/ha at crown root initiation stage (20–25 days after sowing) may be given.
- Second split dose of N @ 25–30 kg/ha at tillering stage (40–45 days after sowing of wheat) may be applied in Ri-Bhoi, Jaintia, East Khasi and West Khasi District after the predicted shower.
- Hand hoe and wheel hoe in wider row spaced crops at 30-35 days after sowing may be operated.

Jute:

- As weather condition is favourable, prepare land and undertake sowing of jute.

Arhar, Potato & Toria:

- It is also optimum time for sowing of potato in mid hills region of Ri-Bhoi, East Khasi and West Khasi hill Districts. But sowing should be delayed due to predicted heavy rain in all the districts of Meghalaya.
- Farmers are advised to harvest already matured spring potato and toria in Ri-Bhoi and Garo Garo hill Districts.

Sugarcane:

- Under prevailing rainy weather condition, farmers are advised not to undertake harvesting of sugarcane.

Vegetables:

- As there is a prediction of medium to heavy rainfall in Jaintia, East Khasi, West Khasi and Ri-Bhoi district, the cultivation of summer vegetables like ladies finger, bottle gourd, pumpkin, ridge gourd, cucumber, bitter gourd, snake gourd etc. should not be done.
- Harvesting of French Bean in Khasi and Jaitia Hills Districts may be initiated.
- Transplanting of tomato (May sown) may be done in Ri-bhoi and Garo Hill districts.
- Top dressing and earthing up of chillies and capsicum may be done in Khasi Hills and Jaintia districts.
- Transplanting if brinjal, chilly may be done in East Garo West Garo, South Garo and Ri-Bhoi Districts.

Ginger & turmeric:

- Top dressing with Mancozeb (0.31%) or Metalaxyl- mancozeb (0.05%) in ginger and turmeric beds In Jaintia, East Khasi, West Khasi and Ri-Bhoi district, may be drenched with only after the predicted heavy rain.

Fruits:

- Planting of temperate, Sub-tropical and tropical fruits and arecanut may be initiated now.
- Harvesting of jackfruit, mango, pineapple, lemon and guava in Ribhoi and Garo Hill districts may be started.

Agro-forestry:

- Transplanting of fodder grasses like cock foot, perennial rye etc. on field risers may be done in Ri-Bhoi, South Garo and West Garo district after the rain.
- Weed biomass and leguminous tree leaves may be lopped and used for composting
- Silvi-pasture grasses may be preserved in all the districts.



**Fishery:**

- The water level in grow-out ponds should be maintained to a level of at least 1.2 m depth to avoid stress due to prevailing high temperature in Ri-Bhoi, South Garo and Jaintia Districts.
- Lime should be applied in grow-out ponds in West Khasi, East Khasi, Jaintia and Ribhoi District.
- Nursery bed preparation for rearing fish fingerling may be started now for commercial purpose in Ri-bhoi district.
- Temperature has risen considerably in East Khasi, West Khasi, Jaintia and Ri-Bhoi district. Hence, Farmers should increase 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.
- Brood stock should be segregated and reared in brood stock ponds.
- 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.

**Animals:**

- Milking animals should be provided with concentrate supplements Bhusa / straw be chaffed and / or mixed with green grass and fed.
- Vaccination schedule against FMD, Blue tongue (BT), Brucellosis, Haemorrhagic Septicaemia, Anthrax in large ruminants and PPR and Sheep and Goat Pox PPR in small ruminants must be carried out in hot humid areas of Ri-Bhoi, South Garo and Jaintia Hills.
- Animals are to be regularly provided mineral mixture along with salt in Ri-Bhoi, East and west Khasi District.
- De-worming of animal with suitable anti-helmentic drug to be done and be checked and treated for ecto-parasites, if any
- Clean drinking water to be provided to animals and water troughs should be regularly cleaned
- For lean period, Napier, Para and Maize grasses may be preserved in silo pits.
- Conservation of surplus fodder / greens (in the form of hay, silage) to be done.

**Soil & Water Management & Conservation:**

- For acidic soil, lime may be applied to neutralize the soil before sowing during seed bed preparation.
- Necessary activities may be taken up for development and construction of rain water harvesting structures like farm pond. To conserve the available rainwater, deep ploughing and water harvest technology may be adopted.
- 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 also recharging of ground water in Ri-Bhoi, East Khasi, Garo Hills and Jaintia Hills districts.
- Take up inter terrace land management practices like compartmental bending etc. especially in the districts of Ri-Bhoi, East Khasi, West Khasi Hills and South Garo Hills.

*Pulakabha Chowdhury*

(P. Chowdhury)  
Technical Officer



INTEGRATED AGROMET ADVISORY SERVICE  
**ICAR Research Complex for NEH Region**  
**Umroi Road, Umiam – 793 103 Meghalaya**



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)*

\* **SRI** practices lead to healthier, more productive soil and plants by supporting greater root growth and by nurturing the abundance and diversity of soil organisms. The agro-ecological principles that contribute to SRI effectiveness have good scientific bases. SRI concepts and methods have been successfully adapted to upland unirrigated rice, and they are now being extrapolated to other crops like millet, wheat and sugar cane. SRI does not require the purchase of new seeds or the use of new high-yielding varieties. Although the highest yields with SRI have been obtained from improved varieties, most traditional or local varieties of rice respond well to SRI practices and command a higher market price. And while chemical fertilizer and agrochemicals can be applied with SRI, their use is not required as organic materials (compost, manure or any decomposed vegetation) can give good or even better results at low cost. Farmers report that when SRI methods are used correctly, rice plants are better able to resist damage from pests and diseases, reducing or eliminating need for agrochemical protection. *(For further information on SRI, please contact Dr. G.C. Munda, Principal Scientist, Agronomy Division)*