

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



# "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 3<sup>rd</sup> May, 2013

### **Bishnupur**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4<sup>th</sup> to 8<sup>th</sup> May, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur (4 <sup>th</sup> to 8 <sup>th</sup>
Imphal - West (30 <sup>th</sup> April to 2 <sup>nd</sup> May, 2013)	May, 2013)
During the past three days the sky was partly cloudy to cloudy. <b>17.2</b> mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 29.6$ °C, range of minimum temperature observed was $17.0 - 22.3$ °C, mean relative humidity observed in morning and afternoon were 84.33 % and 73.67 % respectively. The average wind speed range was $3.9 - 6.1$ km/hr.	It is likely to have light to moderate rains during next five days. The sky is likely to be partly cloudy to mainly cloudy with maximum temp. of 27.0 - $30.0$ °C and minimum temp. of 15.0 – $17.0$ °C. The maximum RH is likely to attain a max value of 99 % and minimum RH of 83 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

#### Main Weather Observation

Convective clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 6<sup>th</sup> May, 2013)

Rain/thundershowers would occur at many places over northeastern states

#### Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

### Weather Outlook for subsequent 4 days from 6<sup>th</sup> to 10<sup>th</sup> May, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif)		- Maintain 5-8 cm of water depth in the crop field.
	Vegetative		- Top dressing may be done after this wet spell as we need to completely drain out water before top dressing and nearly 48 hrs is required for Urea and MOP to be absorbed in the soil.
	Kharif		Field may be ploughed.
Maize	Early vegetative		- Weeding may be done after the wet spell.
			- Top dressing may be done when the plants is knee high.
	Vegetative to cob		- Weeding may be done after the wet spell.
	formation		- Maintain proper drainage system.
Groundnut & soybean	Land preparation to sowing and early vegetative		- Sowing may be continued after this wet spell. Proper drainage must be made to avoid water logging in and around the crop field.
Blackgram & Rice bean	Land preparation		- After this wet spell, land preparation may be done for sowing. It should be made weed free before sowing.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture C	Crops		
Ginger & turmeric	Planting to early vegetative		<ul> <li>Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).</li> <li>Provide proper drainage to avoid water logging in crop.</li> </ul>
Cucurbits	Flowering to fruiting		- Proper drainage and support system for trill may be made. Avoid fruits to touch ground.







Colocassia	Corm treatment and sowing		- Corm treatment should be done with Carbendazim @ 2 gm/lit of water for 20-30 minutes and then dry in the shed before sowing.
			- Sowing may be done.
Orange	Grown-up trees		- In orange, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost.
French Bean and Bhindi	Vegetative		- provide proper drainage in and around the crop field to avoid water logging.
Animal Scienc	95		10551115.
		1.1 1 . 1 1	1, 11, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
			Is to avoid water logging as mosquitoes breeding may take place in it. Also, drinking water must be provided and de-worming must be done.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine.
		FMD	- Vaccinate all the susceptible animals against the FMD.
Cattle / Buffalo/	All age groups	- B.Q. and	- Vaccination of <b>B.Q. and H.S.</b> polyvalent (dose as per recommendation) is
Mithun	except three months or below	Haemorrhagic Septicaemia	advised but deworm with appropriate agent before vaccination.
		- FMD	- Vaccinate all the susceptible animals against the FMD.
Poultry		Ranikhet Disease	- Birds should be vaccinated against <i>Ranikhet disease</i> but deworm before vaccination.
	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Management	- Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> . Wire net portion of the wall should be covered by hanging polythene sheet to protect from rain. Litter management: Apply lime powder @ 2kg per 100 sq. ft. area in litter material.
Fisheries	•	•	
	rate rainfall, water sl	hould not be allowed to	drain directly into the ponds as it may contaminate with unwanted elements.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	<ul> <li>Pond should be free from silt, weeds, insects and other unwanted fishes.</li> <li>p<sup>H</sup> of water must be maintained at 7.0-8.0</li> <li>Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish (grass carp).</li> </ul>
	Hatcheries	water	<ul> <li>Water should be clear and clean with pH 7.0-7.5 and dissolved oxygen level should be 6-8 ppm.</li> <li>Hatching can be done in traditional hapas having outer &amp; inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.</li> </ul>
	Nurseries	ponds	<ul> <li>Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.</li> </ul>



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



# "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 3<sup>rd</sup> May, 2013

### Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4<sup>th</sup> to 8<sup>th</sup> May, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30 <sup>th</sup> April to 2 <sup>nd</sup> May, 2013)	Weather forecast for next five days of Chandel (4 <sup>th</sup> to 8 <sup>th</sup> May, 2013)
During the past three days the sky was partly cloudy to cloudy. <b>17.2</b> mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 29.6$ °C, range of minimum temperature observed was $17.0 - 22.3$ °C, mean relative humidity observed in morning and afternoon were 84.33 % and 73.67 % respectively. The average wind speed range was $3.9 - 6.1$ km/hr.	It is likely to have light to moderate rains during next five days. The sky is likely to be partly cloudy to mainly cloudy with maximum temp. of 28.0 - 32.0 °C and minimum temp. of 16.0 – 19.0 °C. The maximum RH is likely to attain a max value of 99 % and minimum RH of 76 %. The average wind speed during next five days may reach upto max. value of 3 km/hr.

### Main Weather Observation

Convective clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 6<sup>th</sup> May, 2013)

Rain/thundershowers would occur at many places over northeastern states

#### Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

### Weather Outlook for subsequent 4 days from 6<sup>th</sup> to 10<sup>th</sup> May, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif)		- Maintain 5-8 cm of water depth in the crop field.
	Vegetative		- Top dressing may be done after this wet spell as we need to completely
			drain out water before top dressing and nearly 48 hrs is required for Urea
			and MOP to be absorbed in the soil.
	Kharif		Field may be ploughed.
Maize	Early vegetative		- Weeding may be done after the wet spell.
			- Top dressing may be done when the plants is knee high.
	Vegetative to cob		- Weeding may be done after the wet spell.
	formation		- Maintain proper drainage system.
Groundnut &	Land preparation		- Sowing may be continued after this wet spell. Proper drainage must be
soybean	to sowing and		made to avoid water logging in and around the crop field.
·	early vegetative		
Blackgram &	Land preparation		- After this wet spell, land preparation may be done for sowing. It should
Rice bean			be made weed free before sowing.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
-			germination of seeds or fungal growth.
Horticulture C	Crops		
Ginger &	Planting to early		- Spacings for planting of ginger (25cm plant to plant and 25-30cm row to
turmeric	vegetative		row) and turmeric (25cm plant to plant and 40-45cm row to row).
			- Provide proper drainage to avoid water logging in crop.
Cucurbits	Flowering to		- Proper drainage and support system for trill may be made. Avoid fruits to
	fruiting		touch ground.







Colocassia	Corm treatment and sowing		- Corm treatment should be done with Carbendazim @ 2 gm/lit of water for 20-30 minutes and then dry in the shed before sowing.
			- Sowing may be done.
Orange	Grown-up trees		- In orange, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost.
French Bean and Bhindi	Vegetative		- provide proper drainage in and around the crop field to avoid water logging.
Animal Science			logging.
			Is to avoid water logging as mosquitoes breeding may take place in it. Also, drinking water must be provided and de-worming must be done.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine.
		FMD	- Vaccinate all the susceptible animals against the FMD.
Cattle / Buffalo/	All age groups	- B.Q. and	- Vaccination of <i>B.Q. and H.S.</i> polyvalent (dose as per recommendation) is
Mithun	except three months or below	Haemorrhagic Septicaemia	advised but deworm with appropriate agent before vaccination.
		- FMD	- Vaccinate all the susceptible animals against the FMD.
Poultry		Ranikhet Disease	- Birds should be vaccinated against <i>Ranikhet disease</i> but deworm before vaccination.
-	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Management	- Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> . Wire net portion of the wall should be covered by hanging polythene sheet to protect from rain. Litter management: Apply lime powder @ 2kg per 100 sq. ft. area in litter material.
Fisheries	•		
	rate rainfall, water sl	hould not be allowed to	drain directly into the ponds as it may contaminate with unwanted elements.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	<ul> <li>Pond should be free from silt, weeds, insects and other unwanted fishes.</li> <li>p<sup>H</sup> of water must be maintained at 7.0-8.0</li> <li>Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish (grass carp).</li> </ul>
	Hatcheries	water	<ul> <li>Water should be clear and clean with pH 7.0-7.5 and dissolved oxygen level should be 6-8 ppm.</li> <li>Hatching can be done in traditional hapas having outer &amp; inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.</li> </ul>
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.



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## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 3<sup>rd</sup> May, 2013

### Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4<sup>th</sup> to 8<sup>th</sup> May, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur (4 <sup>th</sup> to
Imphal - West (30 <sup>th</sup> April to 2 <sup>nd</sup> May, 2013)	8 <sup>th</sup> May, 2013)
During the past three days the sky was partly cloudy to cloudy. <b>17.2</b> mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 29.6$ °C, range of minimum temperature observed was $17.0 - 22.3$ °C, mean relative humidity observed in morning and afternoon were 84.33 % and 73.67 % respectively. The average wind speed range was $3.9 - 6.1$ km/hr.	It is likely to have light to moderate rains during next five days. The sky is likely to be partly cloudy to mainly cloudy with maximum temp. of $25.0 - 29.0$ °C and minimum temp. of $12.0 - 17.0$ °C. The maximum RH is likely to attain a max value of 99 % and minimum RH of 86 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

### Main Weather Observation

Convective clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 6<sup>th</sup> May, 2013)

Rain/thundershowers would occur at many places over northeastern states

#### Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

### Weather Outlook for subsequent 4 days from 6<sup>th</sup> to 10<sup>th</sup> May, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif)		- Maintain 5-8 cm of water depth in the crop field.
	Vegetative		- Top dressing may be done after this wet spell as we need to completely
			drain out water before top dressing and nearly 48 hrs is required for Urea and MOP to be absorbed in the soil.
	Kharif		Field may be ploughed.
Maize	Early vegetative		- Weeding may be done after the wet spell.
			- Top dressing may be done when the plants is knee high.
	Vegetative to cob		- Weeding may be done after the wet spell.
	formation		- Maintain proper drainage system.
Groundnut &	Land preparation		- Sowing may be continued after this wet spell. Proper drainage must be
soybean	to sowing and		made to avoid water logging in and around the crop field.
	early vegetative		
Blackgram &	Land preparation		- After this wet spell, land preparation may be done for sowing. It should
<b>Rice bean</b>			be made weed free before sowing.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
_			germination of seeds or fungal growth.
Horticulture C	Crops		
Ginger &	Planting to early		- Spacings for planting of ginger (25cm plant to plant and 25-30cm row to
turmeric	vegetative		row) and turmeric (25cm plant to plant and 40-45cm row to row).
			- Provide proper drainage to avoid water logging in crop.
Cucurbits	Flowering to		- Proper drainage and support system for trill may be made. Avoid fruits to
	fruiting		touch ground.







Colocassia	Corm treatment and sowing		- Corm treatment should be done with Carbendazim @ 2 gm/lit of water for 20-30 minutes and then dry in the shed before sowing.
			- Sowing may be done.
Orange	Grown-up trees		- In orange, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost.
French Bean and Bhindi	Vegetative		- provide proper drainage in and around the crop field to avoid water logging.
Animal Scienc	05		Iogging.
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			Is to avoid water logging as mosquitoes breeding may take place in it. Also, drinking water must be provided and de-worming must be done.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine.
		FMD	- Vaccinate all the susceptible animals against the FMD.
Cattle / Buffalo/	All age groups	- B.Q. and	- Vaccination of <i>B.Q. and H.S.</i> polyvalent (dose as per recommendation) is
Mithun	except three months or below	Haemorrhagic Septicaemia	advised but deworm with appropriate agent before vaccination.
		- FMD	- Vaccinate all the susceptible animals against the FMD.
Poultry		Ranikhet Disease	- Birds should be vaccinated against <i>Ranikhet disease</i> but deworm before vaccination.
	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Management	- Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> . Wire net portion of the wall should be covered by hanging polythene sheet to protect from rain. Litter management: Apply lime powder @ 2kg per 100 sq. ft. area in litter material.
Fisheries	•	•	
	rate rainfall, water sl	hould not be allowed to	drain directly into the ponds as it may contaminate with unwanted elements.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	<ul> <li>Pond should be free from silt, weeds, insects and other unwanted fishes.</li> <li>p<sup>H</sup> of water must be maintained at 7.0-8.0</li> <li>Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish (grass carp).</li> </ul>
	Hatcheries	water	<ul> <li>Water should be clear and clean with pH 7.0-7.5 and dissolved oxygen level should be 6-8 ppm.</li> <li>Hatching can be done in traditional hapas having outer &amp; inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.</li> </ul>
	Nurseries	ponds	<ul> <li>Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.</li> </ul>



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# "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 3<sup>rd</sup> May, 2013

### Imphal-East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4<sup>th</sup> to 8<sup>th</sup> May, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - East (4 <sup>th</sup> to 8 <sup>th</sup>
Imphal - West (30 <sup>th</sup> April to 2 <sup>nd</sup> May, 2013)	May, 2013)
During the past three days the sky was partly cloudy to cloudy. <b>17.2</b> mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 29.6$ °C, range of minimum temperature observed was $17.0 - 22.3$ °C, mean relative humidity observed in morning and afternoon were 84.33 % and 73.67 % respectively. The average wind speed range was $3.9 - 6.1$ km/hr.	It is likely to have light to moderate rains during next five days. The sky is likely to be partly cloudy to mainly cloudy with maximum temp. of $25.0 - 29.0$ °C and minimum temp. of $13.0 - 16.0$ °C. The maximum RH is likely to attain a max value of 99 % and minimum RH of 85 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

#### Main Weather Observation

Convective clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 6<sup>th</sup> May, 2013)

Rain/thundershowers would occur at many places over northeastern states

#### Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

### Weather Outlook for subsequent 4 days from 6<sup>th</sup> to 10<sup>th</sup> May, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif)		- Maintain 5-8 cm of water depth in the crop field.
	Vegetative		- Top dressing may be done after this wet spell as we need to completely drain out water before top dressing and nearly 48 hrs is required for Urea and MOP to be absorbed in the soil.
	Kharif		Field may be ploughed.
Maize	Early vegetative		- Weeding may be done after the wet spell.
			- Top dressing may be done when the plants is knee high.
	Vegetative to cob		- Weeding may be done after the wet spell.
	formation		- Maintain proper drainage system.
Groundnut &	Land preparation to sowing and		- Sowing may be continued after this wet spell. Proper drainage must be made to avoid water logging in and around the crop field.
soybean	early vegetative		made to avoid water logging in and around the crop field.
Blackgram &	Land preparation		- After this wet spell, land preparation may be done for sowing. It should
Rice bean			be made weed free before sowing.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth.
Horticulture C	Crops		
Ginger &	Planting to early		- Spacings for planting of ginger (25cm plant to plant and 25-30cm row to
turmeric	vegetative		row) and turmeric (25cm plant to plant and 40-45cm row to row).
			- Provide proper drainage to avoid water logging in crop.
Cucurbits	Flowering to fruiting		- Proper drainage and support system for trill may be made. Avoid fruits to touch ground.







Colocassia	Corm treatment and sowing		- Corm treatment should be done with Carbendazim @ 2 gm/lit of water for 20-30 minutes and then dry in the shed before sowing.
Orange	Grown-up trees		<ul> <li>Sowing may be done.</li> <li>In orange, apply 500g Urea, 1kg SSP &amp; 400g MOP per plant along with 30 kg cowdung manure compost.</li> </ul>
French Bean and Bhindi	Vegetative		<ul> <li>- provide proper drainage in and around the crop field to avoid water logging.</li> </ul>
Animal Scienc	205		1055ing.
* Provide proper	r drainage around the		ds to avoid water logging as mosquitoes breeding may take place in it. Also,
Name of the animal	Growth stage	<b>Disease/ infestation</b>	drinking water must be provided and de-worming must be done. Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine.
		FMD	- Vaccinate all the susceptible animals against the FMD.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- B.Q. and Haemorrhagic Septicaemia	- Vaccination of <b>B.Q. and H.S.</b> polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination.
	months of below	- FMD	- Vaccinate all the susceptible animals against the FMD.
Poultry		Ranikhet Disease	- Birds should be vaccinated against <i>Ranikhet disease</i> but deworm before vaccination.
·	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Management	- Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> . Wire net portion of the wall should be covered by hanging polythene sheet to protect from rain. Litter management: Apply lime powder @ 2kg per 100 sq. ft. area in litter material.
Fisheries			
* In case of mode	rate rainfall, water si	hould not be allowed to	drain directly into the ponds as it may contaminate with unwanted elements.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	<ul> <li>Pond should be free from silt, weeds, insects and other unwanted fishes.</li> <li>p<sup>H</sup> of water must be maintained at 7.0-8.0</li> <li>Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish (grass carp).</li> </ul>
	Hatcheries	water	<ul> <li>Water should be clear and clean with pH 7.0-7.5 and dissolved oxygen level should be 6-8 ppm.</li> <li>Hatching can be done in traditional hapas having outer &amp; inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.</li> </ul>
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



# "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 3<sup>rd</sup> May, 2013

### Imphal-West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4<sup>th</sup> to 8<sup>th</sup> May, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30 <sup>th</sup> April to 2 <sup>nd</sup> May, 2013)	Weather forecast for next five days of Imphal - West (4 <sup>th</sup> to 8 <sup>th</sup> May, 2013)
During the past three days the sky was partly cloudy to cloudy. <b>17.2</b> mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 29.6$ °C, range of minimum temperature observed was $17.0 - 22.3$ °C, mean relative humidity observed in morning and afternoon were 84.33 % and 73.67 % respectively. The average wind speed range was $3.9 - 6.1$ km/hr.	It is likely to have light to moderate rains during next five days. The sky is likely to be partly cloudy to mainly cloudy with maximum temp. of $26.0 - 30.0$ °C and minimum temp. of $14.0 - 17.0$ °C. The maximum RH is likely to attain a max value of 99 % and minimum RH of 78 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

#### Main Weather Observation

Convective clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 6<sup>th</sup> May, 2013)

Rain/thundershowers would occur at many places over northeastern states

#### Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

### Weather Outlook for subsequent 4 days from 6<sup>th</sup> to 10<sup>th</sup> May, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif)		- Maintain 5-8 cm of water depth in the crop field.
	Vegetative		- Top dressing may be done after this wet spell as we need to completely
			drain out water before top dressing and nearly 48 hrs is required for Urea
	171 : 0		and MOP to be absorbed in the soil.
	Kharif		Field may be ploughed.
Maize	Early vegetative		- Weeding may be done after the wet spell.
			- Top dressing may be done when the plants is knee high.
	Vegetative to cob		- Weeding may be done after the wet spell.
	formation		- Maintain proper drainage system.
Groundnut &	Land preparation		- Sowing may be continued after this wet spell. Proper drainage must be
soybean	to sowing and		made to avoid water logging in and around the crop field.
	early vegetative		
Blackgram &	Land preparation		- After this wet spell, land preparation may be done for sowing. It should
Rice bean			be made weed free before sowing.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth.
Horticulture C	Crops		
Ginger &	Planting to early		- Spacings for planting of ginger (25cm plant to plant and 25-30cm row to
turmeric	vegetative		row) and turmeric (25cm plant to plant and 40-45cm row to row).
			- Provide proper drainage to avoid water logging in crop.
Cucurbits	Flowering to		- Proper drainage and support system for trill may be made. Avoid fruits to
	fruiting		touch ground.







Colocassia	Corm treatment and sowing		- Corm treatment should be done with Carbendazim @ 2 gm/lit of water for 20-30 minutes and then dry in the shed before sowing.
			- Sowing may be done.
Orange	Grown-up trees		- In orange, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost.
French Bean and Bhindi	Vegetative		- provide proper drainage in and around the crop field to avoid water logging.
Animal Scienc	95		10551115.
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			Is to avoid water logging as mosquitoes breeding may take place in it. Also, drinking water must be provided and de-worming must be done.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine.
		FMD	- Vaccinate all the susceptible animals against the FMD.
Cattle / Buffalo/	All age groups	- B.Q. and	- Vaccination of <b>B.Q. and H.S.</b> polyvalent (dose as per recommendation) is
Mithun	except three months or below	Haemorrhagic Septicaemia	advised but deworm with appropriate agent before vaccination.
		- FMD	- Vaccinate all the susceptible animals against the FMD.
Poultry		Ranikhet Disease	- Birds should be vaccinated against <i>Ranikhet disease</i> but deworm before vaccination.
	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Management	- Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> . Wire net portion of the wall should be covered by hanging polythene sheet to protect from rain. Litter management: Apply lime powder @ 2kg per 100 sq. ft. area in litter material.
Fisheries	•		
	rate rainfall, water sl	hould not be allowed to	drain directly into the ponds as it may contaminate with unwanted elements.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	<ul> <li>Pond should be free from silt, weeds, insects and other unwanted fishes.</li> <li>p<sup>H</sup> of water must be maintained at 7.0-8.0</li> <li>Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish (grass carp).</li> </ul>
	Hatcheries	water	<ul> <li>Water should be clear and clean with pH 7.0-7.5 and dissolved oxygen level should be 6-8 ppm.</li> <li>Hatching can be done in traditional hapas having outer &amp; inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.</li> </ul>
	Nurseries	ponds	<ul> <li>Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.</li> </ul>



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 3<sup>rd</sup> May, 2013

### Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4<sup>th</sup> to 8<sup>th</sup> May, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati (4 <sup>th</sup> to 8 <sup>th</sup>
Imphal - West (30 <sup>th</sup> April to 2 <sup>nd</sup> May, 2013)	May, 2013)
During the past three days the sky was partly cloudy to cloudy. <b>17.2</b> mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 29.6$ °C, range of minimum temperature observed was $17.0 - 22.3$ °C, mean relative humidity observed in morning and afternoon were 84.33 % and 73.67 % respectively. The average wind speed range was $3.9 - 6.1$ km/hr.	It is likely to have light to moderate rains during next five days. The sky is likely to be partly cloudy to mainly cloudy with maximum temp. of $25.0 - 29.0$ °C and minimum temp. of $12.0 - 17.0$ °C. The maximum RH is likely to attain a max value of 99 % and minimum RH of 84 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

#### Main Weather Observation

Convective clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 6<sup>th</sup> May, 2013)

Rain/thundershowers would occur at many places over northeastern states

#### Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

### Weather Outlook for subsequent 4 days from 6<sup>th</sup> to 10<sup>th</sup> May, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif)		- Maintain 5-8 cm of water depth in the crop field.
	Vegetative		- Top dressing may be done after this wet spell as we need to completely
			drain out water before top dressing and nearly 48 hrs is required for Urea
			and MOP to be absorbed in the soil.
	Kharif		Field may be ploughed.
Maize	Early vegetative		- Weeding may be done after the wet spell.
			- Top dressing may be done when the plants is knee high.
	Vegetative to cob		- Weeding may be done after the wet spell.
	formation		- Maintain proper drainage system.
Soybean	Land preparation		- Sowing may be continued after this wet spell. Proper drainage must be
	to sowing and		made to avoid water logging in and around the crop field.
	early vegetative		
Blackgram &	Land preparation		- After this wet spell, land preparation may be done for sowing. It should
Rice bean			be made weed free before sowing.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth.
Horticulture C	Crops		
Ginger &	Planting to early		- Spacings for planting of ginger (25cm plant to plant and 25-30cm row to
turmeric	vegetative		row) and turmeric (25cm plant to plant and 40-45cm row to row).
			- Provide proper drainage to avoid water logging in crop.
Cucurbits	Flowering to		- Proper drainage and support system for trill may be made. Avoid fruits to
	fruiting		touch ground.





Colocassia	Corm treatment and sowing		<ul> <li>Corm treatment should be done with Carbendazim @ 2 gm/lit of water for 20-30 minutes and then dry in the shed before sowing.</li> <li>Sowing may be done.</li> </ul>
Orange	Grown-up trees		- In orange, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost.
Animal Scienc	es		
* Provide proper	r drainage around th	e birds and animal shed	ls to avoid water logging as mosquitoes breeding may take place in it. Also,
			drinking water must be provided and de-worming must be done.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	<ul> <li>Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine.</li> <li>Vaccinate all the susceptible animals against the FMD.</li> </ul>
Cattle / Buffalo/ Mithun	All age groups except three months or below	- B.Q. and Haemorrhagic Septicaemia	<ul> <li>Vaccination of <i>B.Q. and H.S.</i> polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination.</li> </ul>
		- FMD	- Vaccinate all the susceptible animals against the FMD.
Poultry		Ranikhet Disease	- Birds should be vaccinated against <i>Ranikhet disease</i> but deworm before vaccination.
٠ •	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ <i>1g/lit of drinking water</i> ) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Management	- Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> . Wire net portion of the wall should be covered by hanging polythene sheet to protect from rain. Litter management: Apply lime powder @ 2kg per 100 sq. ft. area in litter material.
Fisheries			
	rate rainfall, water si	hould not be allowed to	drain directly into the ponds as it may contaminate with unwanted elements.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	<ul> <li>Pond should be free from silt, weeds, insects and other unwanted fishes.</li> <li>p<sup>H</sup> of water must be maintained at 7.0-8.0</li> <li>Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish (grass carp).</li> </ul>
	Hatcheries	water	<ul> <li>Water should be clear and clean with pH 7.0-7.5 and dissolved oxygen level should be 6-8 ppm.</li> <li>Hatching can be done in traditional hapas having outer &amp; inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.</li> </ul>
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



# "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 3<sup>rd</sup> May, 2013

### Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4<sup>th</sup> to 8<sup>th</sup> May, 2013 as given below:

Significant past weather for the preceding bi-weekly of	<u>Weather forecast</u> for next five days of Tamenglong (4 <sup>th</sup> to 8 <sup>th</sup>
Imphal - West (30 <sup>th</sup> April to 2 <sup>nd</sup> May, 2013)	<u>May, 2013)</u>
During the past three days the sky was partly cloudy to cloudy. <b>17.2</b> mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 29.6$ °C, range of minimum temperature observed was $17.0 - 22.3$ °C, mean relative humidity observed in morning and afternoon were 84.33 % and 73.67 % respectively. The average wind speed range was $3.9 - 6.1$ km/hr.	It is likely to have light to moderate rains during next five days. The sky is likely to be partly cloudy to mainly cloudy with maximum temp. of $28.0 - 32.0$ °C and minimum temp. of $17.0 - 19.0$ °C. The maximum RH is likely to attain a max value of 99 % and minimum RH of 79 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

#### Main Weather Observation

Convective clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 6<sup>th</sup> May, 2013)

Rain/thundershowers would occur at many places over northeastern states

#### Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

### Weather Outlook for subsequent 4 days from 6<sup>th</sup> to 10<sup>th</sup> May, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif)		- Maintain 5-8 cm of water depth in the crop field.
	Vegetative		- Top dressing may be done after this wet spell as we need to completely drain out water before top dressing and nearly 48 hrs is required for Urea
	Kharif		and MOP to be absorbed in the soil.
M			Field may be ploughed.
Maize	Early vegetative		<ul><li>Weeding may be done after the wet spell.</li><li>Top dressing may be done when the plants is knee high.</li></ul>
	Vegetative to cob		- Weeding may be done after the wet spell.
	formation		- Maintain proper drainage system.
Groundnut & soybean	Land preparation to sowing and early vegetative		- Sowing may be continued after this wet spell. Proper drainage must be made to avoid water logging in and around the crop field.
Blackgram & Rice bean	Land preparation		- After this wet spell, land preparation may be done for sowing. It should be made weed free before sowing.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture C	rops		
Ginger & turmeric	Planting to early vegetative		<ul> <li>Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).</li> <li>Provide proper drainage to avoid water logging in crop.</li> </ul>
Cucurbits	Flowering to fruiting		- Proper drainage and support system for trill may be made. Avoid fruits to touch ground.







Colocassia	Corm treatment and sowing		- Corm treatment should be done with Carbendazim @ 2 gm/lit of water for 20-30 minutes and then dry in the shed before sowing.
			- Sowing may be done.
Orange	Grown-up trees		- In orange, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost.
French Bean	Vegetative		- provide proper drainage in and around the crop field to avoid water
and Bhindi			logging.
Animal Scienc	05		
		1 1 1 1 1 1	
			Is to avoid water logging as mosquitoes breeding may take place in it. Also, drinking water must be provided and de-worming must be done.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine.
		FMD	- Vaccinate all the susceptible animals against the FMD.
Cattle / Buffalo/	All age groups	- B.Q. and	- Vaccination of <b>B.Q. and H.S.</b> polyvalent (dose as per recommendation) is
Mithun	except three months or below	Haemorrhagic Septicaemia	advised but deworm with appropriate agent before vaccination.
		- FMD	- Vaccinate all the susceptible animals against the FMD.
Poultry		Ranikhet Disease	- Birds should be vaccinated against <i>Ranikhet disease</i> but deworm before vaccination.
loutry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Management	- Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> . Wire net portion of the wall should be covered by hanging polythene sheet to protect from rain. Litter management: Apply lime powder @ 2kg per 100 sq. ft. area in litter material.
Fisheries			
	rate rainfall water s	hould not be allowed to	drain directly into the ponds as it may contaminate with unwanted elements.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals
Carp culture			with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	<ul> <li>Pond should be free from silt, weeds, insects and other unwanted fishes.</li> <li>p<sup>H</sup> of water must be maintained at 7.0-8.0</li> <li>Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both</li> </ul>
			the brooders @ 0.5 - 0.7 ml/kg of fish (grass carp).
	Hatcheries	water	<ul> <li>Water should be clear and clean with pH 7.0-7.5 and dissolved oxygen level should be 6-8 ppm.</li> </ul>
			<ul> <li>Hatching can be done in traditional hapas having outer &amp; inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.</li> </ul>
	Nurseries	ponds	<ul> <li>Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.</li> </ul>



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



# "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 3<sup>rd</sup> May, 2013

### Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4<sup>th</sup> to 8<sup>th</sup> May, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30 <sup>th</sup> April to 2 <sup>nd</sup> May, 2013)	Weather forecast for next five days of Thoubal (4 <sup>th</sup> to 8 <sup>th</sup> May, 2013)
During the past three days the sky was partly cloudy to cloudy. <b>17.2</b> mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 29.6$ °C, range of minimum temperature observed was $17.0 - 22.3$ °C, mean relative humidity observed in morning and afternoon were 84.33 % and 73.67 % respectively. The average wind speed range was $3.9 - 6.1$ km/hr.	It is likely to have light to moderate rains during next five days. The sky is likely to be partly cloudy to mainly cloudy with maximum temp. of $26.0 - 30.0$ °C and minimum temp. of $14.0 - 16.0$ °C. The maximum RH is likely to attain a max value of 99 % and minimum RH of 84 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

### Main Weather Observation

Convective clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 6<sup>th</sup> May, 2013)

Rain/thundershowers would occur at many places over northeastern states

#### Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

### Weather Outlook for subsequent 4 days from 6<sup>th</sup> to 10<sup>th</sup> May, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Vegetative		<ul> <li>Maintain 5-8 cm of water depth in the crop field.</li> <li>Top dressing may be done after this wet spell as we need to completely drain out water before top dressing and nearly 48 hrs is required for Urea</li> </ul>
			and MOP to be absorbed in the soil.
	Kharif		Field may be ploughed.
Maize	Early vegetative		<ul><li>Weeding may be done after the wet spell.</li><li>Top dressing may be done when the plants is knee high.</li></ul>
	Vegetative to cob formation		<ul><li>Weeding may be done after the wet spell.</li><li>Maintain proper drainage system.</li></ul>
Groundnut & soybean	Land preparation to sowing and early vegetative		- Sowing may be continued after this wet spell. Proper drainage must be made to avoid water logging in and around the crop field.
Blackgram & Rice bean	Land preparation		- After this wet spell, land preparation may be done for sowing. It should be made weed free before sowing.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture C	Crops		
Ginger & turmeric	Planting to early vegetative		<ul> <li>Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).</li> <li>Provide proper drainage to avoid water logging in crop.</li> </ul>
Cucurbits	Flowering to fruiting		- Proper drainage and support system for trill may be made. Avoid fruits to touch ground.







Colocassia	Corm treatment and sowing		- Corm treatment should be done with Carbendazim @ 2 gm/lit of water for 20-30 minutes and then dry in the shed before sowing.
			- Sowing may be done.
Orange	Grown-up trees		- In orange, apply 500g Urea, 1kg SSP & 400g MOP per plant along with
	N7 4 4		30 kg cowdung manure compost.
French Bean	Vegetative		- provide proper drainage in and around the crop field to avoid water
and Bhindi			logging.
<b>Animal Scienc</b>	es		
			Is to avoid water logging as mosquitoes breeding may take place in it. Also, drinking water must be provided and de-worming must be done.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine.
		FMD	- Vaccinate all the susceptible animals against the FMD.
Cattle / Buffalo/	All age groups	- B.Q. and	<ul> <li>Vaccination of <i>B.Q. and H.S.</i> polyvalent (dose as per recommendation) is</li> </ul>
Mithun	except three months or below	Haemorrhagic Septicaemia	advised but deworm with appropriate agent before vaccination.
		- FMD	- Vaccinate all the susceptible animals against the FMD.
Poultry		Ranikhet Disease	- Birds should be vaccinated against <i>Ranikhet disease</i> but deworm before vaccination.
	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Management	- Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> . Wire net portion of the wall should be covered by hanging polythene sheet to protect from rain. Litter management: Apply lime powder @ 2kg per 100 sq. ft. area in litter material.
Fisheries	•		
	rate rainfall, water sl	hould not be allowed to	drain directly into the ponds as it may contaminate with unwanted elements.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	<ul> <li>Pond should be free from silt, weeds, insects and other unwanted fishes.</li> <li>p<sup>H</sup> of water must be maintained at 7.0-8.0</li> <li>Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish (grass carp).</li> </ul>
	Hatcheries	water	<ul> <li>Water should be clear and clean with pH 7.0-7.5 and dissolved oxygen level should be 6-8 ppm.</li> <li>Hatching can be done in traditional hapas having outer &amp; inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.</li> </ul>
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



# "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 3<sup>rd</sup> May, 2013

### Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4<sup>th</sup> to 8<sup>th</sup> May, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30 <sup>th</sup> April to 2 <sup>nd</sup> May, 2013)	Weather forecast for next five days of Ukhrul (4 <sup>th</sup> to 8 <sup>th</sup> May, 2013)
During the past three days the sky was partly cloudy to cloudy. <b>17.2</b> mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 29.6$ °C, range of minimum temperature observed was $17.0 - 22.3$ °C, mean relative humidity observed in morning and afternoon were 84.33 % and 73.67 % respectively. The average wind speed range was $3.9 - 6.1$ km/hr.	It is likely to have light to moderate rains during next five days. The sky is likely to be partly cloudy to mainly cloudy with maximum temp. of $25.0 - 28.0$ °C and minimum temp. of $12.0 - 16.0$ °C. The maximum RH is likely to attain a max value of 98 % and minimum RH of 66 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

#### Main Weather Observation

Convective clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 6<sup>th</sup> May, 2013)

Rain/thundershowers would occur at many places over northeastern states

#### Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 48 hrs

### Weather Outlook for subsequent 4 days from 6<sup>th</sup> to 10<sup>th</sup> May, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif)		- Maintain 5-8 cm of water depth in the crop field.
	Vegetative		- Top dressing may be done after this wet spell as we need to completely
			drain out water before top dressing and nearly 48 hrs is required for Urea
			and MOP to be absorbed in the soil.
	Kharif		Field may be ploughed.
Maize	Early vegetative		- Weeding may be done after the wet spell.
			- Top dressing may be done when the plants is knee high.
	Vegetative to cob		- Weeding may be done after the wet spell.
	formation		- Maintain proper drainage system.
Soybean	Land preparation		- Sowing may be continued after this wet spell. Proper drainage must be
	to sowing and		made to avoid water logging in and around the crop field.
	early vegetative		
Blackgram &	Land preparation		- After this wet spell, land preparation may be done for sowing. It should
<b>Rice bean</b>			be made weed free before sowing.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth.
Horticulture C	Crops		
Ginger &	Planting to early		- Spacings for planting of ginger (25cm plant to plant and 25-30cm row to
turmeric	vegetative		row) and turmeric (25cm plant to plant and 40-45cm row to row).
			- Provide proper drainage to avoid water logging in crop.
Cucurbits	Flowering to		- Proper drainage and support system for trill may be made. Avoid fruits to
	fruiting		touch ground.





Colocassia	Corm treatment and sowing		<ul> <li>Corm treatment should be done with Carbendazim @ 2 gm/lit of water for 20-30 minutes and then dry in the shed before sowing.</li> <li>Sowing may be done.</li> </ul>
Orange	Grown-up trees		- In orange, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost.
Animal Scienc	res	•	
* Provide prope	r drainage around th		ds to avoid water logging as mosquitoes breeding may take place in it. Also,
take care that the	ere is no water leaka		drinking water must be provided and de-worming must be done.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	<ul> <li>Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use Korean strain vaccine.</li> <li>Vaccinate all the susceptible animals against the FMD.</li> </ul>
Cattle / Buffalo/ Mithun	All age groups except three months or below	- B.Q. and Haemorrhagic Septicaemia - FMD	- Vaccination of <b>B.Q. and H.S.</b> polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination.
Poultry		Ranikhet Disease	<ul> <li>Vaccinate all the susceptible animals against the FMD.</li> <li>Birds should be vaccinated against <i>Ranikhet disease</i> but deworm before vaccination.</li> </ul>
	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Management	- Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> . Wire net portion of the wall should be covered by hanging polythene sheet to protect from rain. Litter management: Apply lime powder @ 2kg per 100 sq. ft. area in litter material.
Fisheries			
* In case of mode	rate rainfall, water s	hould not be allowed to	drain directly into the ponds as it may contaminate with unwanted elements.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
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	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.