

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



## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 14<sup>th</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 15<sup>th</sup> to 19<sup>th</sup> May, 2013 as given below:

Significant past weather for the preceding bi-weekly o	f
Imphal - West (10 <sup>th</sup> to 13 <sup>th</sup> May, 2013)	_

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of  $12^{th}$  May. **45.1** mm rainfall was recorded during past four days. Maximum temperature range observed was 20.5-28.0 °C, range of minimum temperature observed was 17.6-18.0 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 79.5 % respectively. The average wind speed range was 2.2-3.3 km/hr.

# Weather forecast for next five days of Bishnupur (15<sup>th</sup> to 19<sup>th</sup> May, 2013)

It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be partly cloudy to cloudy but mainly clear on  $18^{th}$  May, with maximum temp. of 26.0 - 28.0  $^{\circ}\text{C}$  and minimum temp. of 19.0  $^{\circ}\text{C}$ . The maximum RH is likely to attain a max value of 99 % and minimum RH of 82 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

#### **Main Weather Observation**

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

### Weather Forecast for next 3 days (upto 0830 hours IST of 17<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 17<sup>th</sup> to 21<sup>st</sup> May, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Tillering to panicle initiation		<ul> <li>Drain out excess water from the crop field. Maintain water depth of 5-8 cm.</li> <li>At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.</li> </ul>
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	<ul> <li>Weeding may be done.</li> <li>Top dressing may be done when the plants is knee high.</li> <li>Apply 2-3 granules of Furadan 3G at the whorl of each plant.</li> </ul>
	Flowering to cob formation		<ul><li>Weeding may be done.</li><li>Maintain proper drainage system to drain out excess water.</li></ul>
Groundnut & soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from crop field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture C	<i>Erops</i>		
Proper drainage	should be made to pre	event water logging as	s water logging
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is



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Cucurbits	Flowering to		- Proper drainage and staking for trill may be made. Avoid fruits to touch
Cucui bits	fruiting		ground. Harvest mature fruits.
Chilli/ tomato/	- Fruiting stage		- As there had been rain since past few days, no field practice is advised. Only
brinjal	Truiting stage		carefully harvesting of fruits, without disturbing the roots and stem of the plant
brinjar			may be done.
			- Even if the seedlings are ready for transplanting, transfer it in polybags under
	- Nursery		rain sheltered sheds or low cost polyhouses till the field is ready.
fruit plants like	Planting		- Planting may be done in upland area and treat planting material with
Orange, Lime,			insecticide and fungicide
Lemon, Litchi,			
Animal Science			
Name of the		Disease/ infestation	A one metaprological advisantes
animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months	- Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm
· ·	of age		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.
		- Diarrhoea	- Diarocare bolus (@1.5g); 1-2 bolus twice daily for 4 days.
			- Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give
			Banif-1000 @ 1 tablet per 100kg b.wt.
Goat	All age groups	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with
	except three		vitamins like Livozyme @ 50ml twice daily.
Cattle / Dagfala/	months or below	D.O 1	Variation of DO and HC and and (does not assume define) in
Cattle / Buffalo/ Mithun	All age groups	- B.Q. and Haemorrhagic	- Vaccination of <b>B.Q.</b> and <b>H.S.</b> polyvalent (dose as per recommendation) is
MILLIUII	except three	Septicaemia	advised but deworm with appropriate agent before vaccination.  - Check that the animals do not drink the water that has been drained from hills/
	months or below	Берисаенна	upland areas, as the spores causing B.Q. are abundantly present in it.
		- FMD	- Vaccinate all the susceptible animals against the FMD.
			- Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins
		- Fascioliosis	like Livozyme @ 50ml twice daily.
			- Apply Butox @3ml/lit of water while brushing the animals.
Poultry	All susceptible	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking
1 oditi y	age groups	Cocciaiosis	water) + plus 150gm of Glucose and vit K for 5 to 7 days.
	age groups	Pox	- Vaccinate against pox.
			- To prevent coccidiosis, litter should be kept dry and turned regularly. Apply
		Management	lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean & safe
			drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> .
Fisheries			drinking water by adding bokena (semazer) to avoid combutumosis.
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
1			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	• Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both
			the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	<ul> <li>Hatching can be done in traditional hapas having outer &amp; inner hapas or</li> </ul>
			circular hatcheries. A mild current with fine shower is needed for circular
	Nurseries	ponds	hatcheries. Feed should not be given for 3 days.  - Stock 20-30 lakhs spawns in one hectare water. Water depth should be



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## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 14<sup>th</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 15<sup>th</sup> to 19<sup>th</sup> May, 2013 as given below:

Significant past weather for the preceding bi-weekly of	
Imphal - West (10 <sup>th</sup> to 13 <sup>th</sup> May, 2013)	

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of  $12^{th}$  May. **45.1** mm rainfall was recorded during past four days. Maximum temperature range observed was 20.5-28.0 °C, range of minimum temperature observed was 17.6-18.0 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 79.5 % respectively. The average wind speed range was 2.2-3.3 km/hr.

# Weather forecast for next five days of Chandel (15<sup>th</sup> to 19<sup>th</sup> May, 2013)

It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be mainly cloudy to cloudy but clear on  $19^{th}$  May, with maximum temp. of 28.0 -  $32.0\,^{\circ}\text{C}$  and minimum temp. of 19.0 -  $23.0\,^{\circ}\text{C}$ . The maximum RH is likely to attain a max value of  $98\,\%$  and minimum RH of  $88\,\%$ . The average wind speed during next five days may reach upto max. value of  $3\,\text{km/hr}$ .

#### **Main Weather Observation**

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

### Weather Forecast for next 3 days (upto 0830 hours IST of 17<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 17<sup>th</sup> to 21<sup>st</sup> May, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Tillering to panicle initiation		<ul> <li>Drain out excess water from the crop field. Maintain water depth of 5-8 cm.</li> <li>At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.</li> </ul>
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	<ul><li>Weeding may be done.</li><li>Top dressing may be done when the plants is knee high.</li><li>Apply 2-3 granules of Furadan 3G at the whorl of each plant.</li></ul>
	Flowering to cob formation		<ul><li>Weeding may be done.</li><li>Maintain proper drainage system to drain out excess water.</li></ul>
Groundnut & soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from crop field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture C	Grops		
Proper drainage	should be made to pro	event water logging as	s water logging
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is



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Cucurbits	Flowering to		- Proper drainage and staking for trill may be made. Avoid fruits to touch
	fruiting		ground. Harvest mature fruits.
Chilli/ tomato/ brinjal	- Fruiting stage - Nursery		<ul> <li>- As there had been rain since past few days, no field practice is advised. Only carefully harvesting of fruits, without disturbing the roots and stem of the plant may be done.</li> <li>- Even if the seedlings are ready for transplanting, transfer it in polybags under rain sheltered sheds or low cost polyhouses till the field is ready.</li> </ul>
fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Planting		Planting may be done in upland area and treat planting material with insecticide and fungicide
Animal Science	es	_ L	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	- Swine Fever - FMD - Diarrhoea	<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> <li>Diarocare bolus (@1.5g); 1-2 bolus twice daily for 4 days.</li> </ul>
		Biamoca	- Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give Banif-1000 @ 1 tablet per 100kg b.wt.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- B.Q. and Haemorrhagic Septicaemia - FMD - Fascioliosis	<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> <li>Check that the animals do not drink the water that has been drained from hills/upland areas, as the spores causing B.Q. are abundantly present in it.</li> <li>Vaccinate all the susceptible animals against the FMD.</li> <li>Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.</li> <li>Apply Butox @3ml/lit of water while brushing the animals.</li> </ul>
Poultry	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.
		Pox	- Vaccinate against pox.
		Management	- To prevent coccidiosis, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> .
Fisheries		1	
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	■ Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	• Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	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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## MANIPUR BULLETIN 14<sup>th</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 15<sup>th</sup> to 19<sup>th</sup> May, 2013 as given below:

Significant past weather for the preceding bi-weekly o	f
Imphal - West (10 <sup>th</sup> to 13 <sup>th</sup> May, 2013)	_

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of  $12^{th}$  May. **45.1** mm rainfall was recorded during past four days. Maximum temperature range observed was 20.5 - 28.0 °C, range of minimum temperature observed was 17.6 - 18.0 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 79.5 % respectively. The average wind speed range was 2.2 - 3.3 km/hr.

# Weather forecast for next five days of Churachandpur (15<sup>th</sup> to 19<sup>th</sup> May, 2013)

It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be partly cloudy to mainly cloudy with maximum temp. of 26.0 - 31.0  $^{\circ}\text{C}$  and minimum temp. of 18.0 - 21.0  $^{\circ}\text{C}$ . The maximum RH is likely to attain a max value of 98 % and minimum RH of 90 %. The average wind speed during next five days may reach upto max. value of 5 km/hr.

#### **Main Weather Observation**

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

#### Weather Forecast for next 3 days (upto 0830 hours IST of 17<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 17<sup>th</sup> to 21<sup>st</sup> May, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Tillering to panicle initiation		<ul> <li>Drain out excess water from the crop field. Maintain water depth of 5-8 cm.</li> <li>At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.</li> </ul>
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	<ul> <li>Weeding may be done.</li> <li>Top dressing may be done when the plants is knee high.</li> <li>Apply 2-3 granules of Furadan 3G at the whorl of each plant.</li> </ul>
	Flowering to cob formation		<ul><li>Weeding may be done.</li><li>Maintain proper drainage system to drain out excess water.</li></ul>
Groundnut & soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from crop field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture C	<i>Erops</i>		
Proper drainage	should be made to pro	event water logging as	s water logging
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is



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Cucurbits	Flowering to		- Proper drainage and staking for trill may be made. Avoid fruits to touch
Cucui bits	fruiting		ground. Harvest mature fruits.
Chilli/ tomato/	- Fruiting stage		- As there had been rain since past few days, no field practice is advised. Only
brinjal	- I futung stage		carefully harvesting of fruits, without disturbing the roots and stem of the plant
brinjar			may be done.
			- Even if the seedlings are ready for transplanting, transfer it in polybags under
	- Nursery		rain sheltered sheds or low cost polyhouses till the field is ready.
fruit plants like	Planting		- Planting may be done in upland area and treat planting material with
Orange, Lime,			insecticide and fungicide
Lemon, Litchi,			
Animal Science			
Name of the		Disease/ infestation	A one metaprological advisories
animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months	- Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm
O	of age		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.
		- Diarrhoea	- Diarocare bolus (@1.5g); 1-2 bolus twice daily for 4 days.
			- Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give
			Banif-1000 @ 1 tablet per 100kg b.wt.
Goat	All age groups	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with
	except three		vitamins like Livozyme @ 50ml twice daily.
Cattle / Dagfala/	months or below	D.O 1	Variation of DO and HC and and (does not assume define) in
Cattle / Buffalo/ Mithun	All age groups	- B.Q. and Haemorrhagic	- Vaccination of <b>B.Q.</b> and <b>H.S.</b> polyvalent (dose as per recommendation) is
MILLIUII	except three	Septicaemia	advised but deworm with appropriate agent before vaccination.  - Check that the animals do not drink the water that has been drained from hills/
	months or below	Берисаенна	upland areas, as the spores causing B.Q. are abundantly present in it.
		- FMD	- Vaccinate all the susceptible animals against the FMD.
			- Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins
		- Fascioliosis	like Livozyme @ 50ml twice daily.
			- Apply Butox @3ml/lit of water while brushing the animals.
Poultry	All susceptible	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking
1 oditi y	age groups	Cocciaiosis	water) + plus 150gm of Glucose and vit K for 5 to 7 days.
	age groups	Pox	- Vaccinate against pox.
			- To prevent coccidiosis, litter should be kept dry and turned regularly. Apply
		Management	lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean & safe
			drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> .
Fisheries			drinking water by adding bokena (semazer) to avoid combutations.
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
1			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	• Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both
			the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	<ul> <li>Hatching can be done in traditional hapas having outer &amp; inner hapas or</li> </ul>
			circular hatcheries. A mild current with fine shower is needed for circular
			hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	hatcheries. Feed should not be given for 3 days.  - Stock 20-30 lakhs spawns in one hectare water. Water depth should be



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## MANIPUR BULLETIN 14<sup>th</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 15<sup>th</sup> to 19<sup>th</sup> May, 2013 as given below:

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# Weather forecast for next five days of Imphal - East (15<sup>th</sup> to 19<sup>th</sup> May, 2013)

It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 26.0 - 29.0  $^{\circ}\text{C}$  and minimum temp. of 18.0 - 20.0  $^{\circ}\text{C}$ . The maximum RH is likely to attain a max value of 97 % 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**

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

### Weather Forecast for next 3 days (upto 0830 hours IST of 17<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 17<sup>th</sup> to 21<sup>st</sup> May, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Tillering to panicle initiation		- Drain out excess water from the crop field. Maintain water depth of 5-8 cm At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	<ul> <li>Weeding may be done.</li> <li>Top dressing may be done when the plants is knee high.</li> <li>Apply 2-3 granules of Furadan 3G at the whorl of each plant.</li> </ul>
	Flowering to cob formation		<ul><li>Weeding may be done.</li><li>Maintain proper drainage system to drain out excess water.</li></ul>
Groundnut & soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from crop field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture C	Crops		
Proper drainage	should be made to pre	event water logging as	s water logging
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is



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Cucurbits	Flowering to		- Proper drainage and staking for trill may be made. Avoid fruits to touch
Cucui bits	fruiting		ground. Harvest mature fruits.
Chilli/ tomato/	- Fruiting stage		- As there had been rain since past few days, no field practice is advised. Only
brinjal	- I fulfing stage		carefully harvesting of fruits, without disturbing the roots and stem of the plant
brinjar			may be done.
			- Even if the seedlings are ready for transplanting, transfer it in polybags under
	- Nursery		rain sheltered sheds or low cost polyhouses till the field is ready.
fruit plants like	Planting		- Planting may be done in upland area and treat planting material with
Orange, Lime,			insecticide and fungicide
Lemon, Litchi,			mountain and rangitain
etc./ Tree bean			
Animal Scienc Name of the		Discount infortation	A and most and advantage
animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months	- Swine Fever	- Vaccinate with <b>Swine Fever</b> vaccine as per prescribed dose but de-worm
8	of age		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.
		- Diarrhoea	- Diarocare bolus (@1.5g); 1-2 bolus twice daily for 4 days.
			- Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give
			Banif-1000 @ 1 tablet per 100kg b.wt.
Goat	All age groups	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with
	except three		vitamins like Livozyme @ 50ml twice daily.
C 44 / D 66 1 /	months or below	D 0 1	William CDO INC 1 1 (1)
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	Haemorrhagic Septicaemia	advised but deworm with appropriate agent before vaccination.
	months or below	Septicaetilia	- Check that the animals do not drink the water that has been drained from hills/
		- FMD	upland areas, as the spores causing B.Q. are abundantly present in it Vaccinate all the susceptible animals against the FMD.
			- Vaccinate an tile susceptible animals against the FMD.  - Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins
		- Fascioliosis	like Livozyme @ 50ml twice daily.
			- Apply Butox @3ml/lit of water while brushing the animals.
Poultry	All susceptible	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking
1 outry	age groups	Coccidiosis	water) + plus 150gm of Glucose and vit K for 5 to 7 days.
	age groups	Pox	- Vaccinate against pox.
		Management	- To prevent coccidiosis, litter should be kept dry and turned regularly. Apply
			lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> .
Figh oring			drinking water by adding Sokrena (schidzer) to avoid Colebactinosis.
Fisheries 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
carp culture	Diooders	1 ond and water	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	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both
		r	the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	■ Hatching can be done in traditional hapas having outer & inner hapas or
	114101101100	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	circular hatcheries. A mild current with fine shower is needed for circular
			hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be
	1101501105	polius	more than 1.0 m. Feeding should be given@5-10% body weight/day.
	1		more than 1.0 m. I county should be given a 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 14<sup>th</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 15<sup>th</sup> to 19<sup>th</sup> May, 2013 as given below:

Significant past weather for the preceding bi-weekly of	
Imphal - West (10 <sup>th</sup> to 13 <sup>th</sup> May, 2013)	

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of  $12^{th}$  May. **45.1** mm rainfall was recorded during past four days. Maximum temperature range observed was 20.5-28.0 °C, range of minimum temperature observed was 17.6-18.0 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 79.5 % respectively. The average wind speed range was 2.2-3.3 km/hr.

# Weather forecast for next five days of Imphal - West (15<sup>th</sup> to 19<sup>th</sup> May, 2013)

It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be partly cloudy to cloudy but clear on  $18^{th}$  May, with maximum temp. of 24.0 -  $28.0\,^{\circ}\text{C}$  and minimum temp. of  $17.0-19.0\,^{\circ}\text{C}$ . The maximum RH is likely to attain a max value of  $98\,\%$  and minimum RH of  $89\,\%$ . The average wind speed during next five days may reach upto max. value of  $5\,\text{km/hr}$ .

#### **Main Weather Observation**

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

### Weather Forecast for next 3 days (upto 0830 hours IST of 17<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 17<sup>th</sup> to 21<sup>st</sup> May, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Tillering to panicle initiation		- Drain out excess water from the crop field. Maintain water depth of 5-8 cm At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	<ul> <li>Weeding may be done.</li> <li>Top dressing may be done when the plants is knee high.</li> <li>Apply 2-3 granules of Furadan 3G at the whorl of each plant.</li> </ul>
	Flowering to cob formation		<ul><li>Weeding may be done.</li><li>Maintain proper drainage system to drain out excess water.</li></ul>
Groundnut & soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from crop field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture C	Crops		
Proper drainage	should be made to pre	event water logging as	s water logging
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is



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



Cucurbits	Flowering to		- Proper drainage and staking for trill may be made. Avoid fruits to touch
	fruiting		ground. Harvest mature fruits.
Chilli/ tomato/ brinjal	- Fruiting stage - Nursery		<ul> <li>- As there had been rain since past few days, no field practice is advised. Only carefully harvesting of fruits, without disturbing the roots and stem of the plant may be done.</li> <li>- Even if the seedlings are ready for transplanting, transfer it in polybags under rain sheltered sheds or low cost polyhouses till the field is ready.</li> </ul>
fruit plants like Orange, Lime, Lemon, Litchi, etc./ Tree bean	Planting		- Planting may be done in upland area and treat planting material with insecticide and fungicide
Animal Science	es	-	
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> <li>Diarocare bolus (@1.5g); 1-2 bolus twice daily for 4 days.</li> </ul>
		- Diarrhoea	- Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give Banif-1000 @ 1 tablet per 100kg b.wt.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- B.Q. and Haemorrhagic Septicaemia - FMD - Fascioliosis	<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> <li>Check that the animals do not drink the water that has been drained from hills/upland areas, as the spores causing B.Q. are abundantly present in it.</li> <li>Vaccinate all the susceptible animals against the FMD.</li> <li>Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.</li> <li>Apply Butox @3ml/lit of water while brushing the animals.</li> </ul>
Poultry	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.
		Pox	- Vaccinate against pox.
		Management	- To prevent coccidiosis, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> .
Fisheries		1	
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	■ Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	• Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	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 14<sup>th</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 15<sup>th</sup> to 19<sup>th</sup> May, 2013 as given below:

Significant past weather for the preceding bi-weekly of	
Imphal - West (10 <sup>th</sup> to 13 <sup>th</sup> May, 2013)	

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of  $12^{th}$  May. **45.1** mm rainfall was recorded during past four days. Maximum temperature range observed was 20.5 - 28.0 °C, range of minimum temperature observed was 17.6 - 18.0 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 79.5 % respectively. The average wind speed range was 2.2 - 3.3 km/hr.

# Weather forecast for next five days of Senapati (15<sup>th</sup> to 19<sup>th</sup> May, 2013)

It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 22.0 - 26.0  $^{\circ}\text{C}$  and minimum temp. of 15.0 - 19.0  $^{\circ}\text{C}$ . The maximum RH is likely to attain a max value of 97 % 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**

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

## Weather Forecast for next 3 days (upto 0830 hours IST of 17<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 17<sup>th</sup> to 21<sup>st</sup> May, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Tillering to panicle initiation		- Drain out excess water from the crop field. Maintain water depth of 5-8 cm At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	<ul> <li>Weeding may be done.</li> <li>Top dressing may be done when the plants is knee high.</li> <li>Apply 2-3 granules of Furadan 3G at the whorl of each plant.</li> </ul>
	Flowering to cob formation		<ul><li>Weeding may be done.</li><li>Maintain proper drainage system to drain out excess water.</li></ul>
Soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture C	Crops		
Proper drainage	should be made to pre	event water logging as	s water logging
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is



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



Cucurbits	Flowering to		- Proper drainage and staking for trill may be made. Avoid fruits to touch
Cucuibits	fruiting		ground. Harvest mature fruits.
Chilli/ brinjal	- Fruiting stage		- As there had been rain since past few days, no field practice is advised. Only
Chim/ Di hijai	- I fulfill stage		carefully harvesting of fruits, without disturbing the roots and stem of the plant
			may be done.
			- Even if the seedlings are ready for transplanting, transfer it in polybags under
	- Nursery		rain sheltered sheds or low cost polyhouses till the field is ready.
fruit plants like	Planting		- Planting may be done in upland area and treat planting material with
Orange, Lime,			insecticide and fungicide
Lemon, Litchi,			
etc./ Tree bean			
Animal Science Name of the		Disease/ infestation	Agro-meteorological advisories
animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months	- Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm
	of age		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.
		- Diarrhoea	- Diarocare bolus (@1.5g); 1-2 bolus twice daily for 4 days.
			- Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give
			Banif-1000 @ 1 tablet per 100kg b.wt.
Goat	All age groups	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with
	except three		vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/	months or below	- B.Q. and	Vaccination of P.O. and H.S. polymology (dose as not recommendation) is
Mithun	All age groups	Haemorrhagic	- Vaccination of <b>B.Q. and H.S.</b> polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination.
Withiuii	except three months or below	Septicaemia	- Check that the animals do not drink the water that has been drained from hills/
	months or below	Берисионни	upland areas, as the spores causing B.Q. are abundantly present in it.
		- FMD	- Vaccinate all the susceptible animals against the FMD.
			- Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins
		- Fascioliosis	like Livozyme @ 50ml twice daily.
			- Apply Butox @3ml/lit of water while brushing the animals.
Poultry	All susceptible	Coccidiosis	- Poultry must be provided Coccidiostat/ Supercox (@ 1g/lit of drinking
•	age groups		water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Pox	- Vaccinate against pox.
		Management	- To prevent coccidiosis, litter should be kept dry and turned regularly. Apply
		Management	lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean & safe
			drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> .
Fisheries	•	•	, ,
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	• Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both
			the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	<ul> <li>Hatching can be done in traditional hapas having outer &amp; inner hapas or</li> </ul>
			circular hatcheries. A mild current with fine shower is needed for circular
			hatcheries. Feed should not be given for 3 days.
	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 14<sup>th</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 15<sup>th</sup> to 19<sup>th</sup> May, 2013 as given below:

Significant past weather for the preceding bi-weekly of	
Imphal - West (10 <sup>th</sup> to 13 <sup>th</sup> May, 2013)	

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of  $12^{th}$  May. **45.1** mm rainfall was recorded during past four days. Maximum temperature range observed was 20.5-28.0 °C, range of minimum temperature observed was 17.6-18.0 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 79.5 % respectively. The average wind speed range was 2.2-3.3 km/hr.

# Weather forecast for next five days of Tamenglong (15<sup>th</sup> to 19<sup>th</sup> May, 2013)

It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be partly cloudy to cloudy but mainly clear on  $18^{th}$  May, with maximum temp. of 28.0 -  $32.0\,^{\circ}\text{C}$  and minimum temp. of 20.0 -  $22.0\,^{\circ}\text{C}$ . The maximum RH is likely to attain a max value of  $99\,$ % and minimum RH of  $89\,$ %. The average wind speed during next five days may reach upto max. value of  $5\,$  km/hr.

#### **Main Weather Observation**

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

### Weather Forecast for next 3 days (upto 0830 hours IST of 17<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 17<sup>th</sup> to 21<sup>st</sup> May, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Tillering to panicle initiation		- Drain out excess water from the crop field. Maintain water depth of 5-8 cm At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	<ul> <li>Weeding may be done.</li> <li>Top dressing may be done when the plants is knee high.</li> <li>Apply 2-3 granules of Furadan 3G at the whorl of each plant.</li> </ul>
	Flowering to cob formation		<ul><li>Weeding may be done.</li><li>Maintain proper drainage system to drain out excess water.</li></ul>
Groundnut & soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from crop field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture C	Crops		
Proper drainage	should be made to pre	event water logging as	s water logging
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is



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



Cucurbits	Flowering to		- Proper drainage and staking for trill may be made. Avoid fruits to touch
Cucuibits	fruiting		ground. Harvest mature fruits.
Chilli/ tomato/	- Fruiting stage		- As there had been rain since past few days, no field practice is advised. Only
brinjal	- Trutting stage		carefully harvesting of fruits, without disturbing the roots and stem of the plant
brinjar			may be done.
			- Even if the seedlings are ready for transplanting, transfer it in polybags under
	- Nursery		rain sheltered sheds or low cost polyhouses till the field is ready.
fruit plants like	Planting		- Planting may be done in upland area and treat planting material with
Orange, Lime,			insecticide and fungicide
Lemon, Litchi,			
Animal Science			
Name of the		Disease/ infestation	A one metapulacian advisantes
animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months	- Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm
S	of age		using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't use
	C		Korean strain vaccine.
		- FMD	- Vaccinate all the susceptible animals against the FMD.
		- Diarrhoea	- Diarocare bolus (@1.5g); 1-2 bolus twice daily for 4 days.
			- Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give
			Banif-1000 @ 1 tablet per 100kg b.wt.
Goat	All age groups	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with
	except three		vitamins like Livozyme @ 50ml twice daily.
Cattle / Darffala/	months or below	D.O 1	Variation of DO and HC admitted (days a superstantial visualism) is
Cattle / Buffalo/ Mithun	All age groups	- B.Q. and Haemorrhagic	- Vaccination of <b>B.Q.</b> and <b>H.S.</b> polyvalent (dose as per recommendation) is
MILLIUII	except three	Septicaemia	advised but deworm with appropriate agent before vaccination.  - Check that the animals do not drink the water that has been drained from hills/
	months or below	Берисаенна	upland areas, as the spores causing B.Q. are abundantly present in it.
		- FMD	- Vaccinate all the susceptible animals against the FMD.
			- Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins
		- Fascioliosis	like Livozyme @ 50ml twice daily.
			- Apply Butox @3ml/lit of water while brushing the animals.
Poultry	All susceptible	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking
1 oditi j	age groups		water) + plus 150gm of Glucose and vit K for 5 to 7 days.
	age groups	Pox	- Vaccinate against pox.
			- To prevent coccidiosis, litter should be kept dry and turned regularly. Apply
		Management	lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean & safe
			drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> .
Fisheries			drinking water by adding boktona (semazer) to avoid communities.
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
1	-		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	• Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both
			the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	
	Hatcheries	water	<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</li> </ul>
	Hatcheries	water	<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</li> </ul>
	Hatcheries Nurseries	water	■ Hatching can be done in traditional hapas having outer & inner hapas or



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



## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 14<sup>th</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 15<sup>th</sup> to 19<sup>th</sup> May, 2013 as given below:

Significant past weather for the preceding bi-weekly o	f
Imphal - West (10 <sup>th</sup> to 13 <sup>th</sup> May, 2013)	_

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of  $12^{th}$  May. **45.1** mm rainfall was recorded during past four days. Maximum temperature range observed was 20.5 - 28.0 °C, range of minimum temperature observed was 17.6 - 18.0 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 79.5 % respectively. The average wind speed range was 2.2 - 3.3 km/hr.

# Weather forecast for next five days of Thoubal (15<sup>th</sup> to 19<sup>th</sup> May, 2013)

It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be mainly cloudy to cloudy but clear on  $19^{th}$  May, with maximum temp. of 26.0 -  $29.0\,^{\circ}\text{C}$  and minimum temp. of 18.0 -  $20.0\,^{\circ}\text{C}$ . The maximum RH is likely to attain a max value of  $98\,\%$  and minimum RH of  $79\,\%$ . The average wind speed during next five days may reach upto max. value of  $2\,\text{km/hr}$ .

#### **Main Weather Observation**

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

## Weather Forecast for next 3 days (upto 0830 hours IST of 17<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 17<sup>th</sup> to 21<sup>st</sup> May, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Tillering to panicle initiation		- Drain out excess water from the crop field. Maintain water depth of 5-8 cm At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	<ul> <li>Weeding may be done.</li> <li>Top dressing may be done when the plants is knee high.</li> <li>Apply 2-3 granules of Furadan 3G at the whorl of each plant.</li> </ul>
	Flowering to cob formation		<ul><li>Weeding may be done.</li><li>Maintain proper drainage system to drain out excess water.</li></ul>
Groundnut & soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from crop field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture C	Crops		
Proper drainage	should be made to pre	event water logging as	s water logging
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is



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Cucurbits	Flowering to		- Proper drainage and staking for trill may be made. Avoid fruits to touch
Cucui bits	fruiting		ground. Harvest mature fruits.
Chilli/ tomato/	- Fruiting stage		- As there had been rain since past few days, no field practice is advised. Only
brinjal	Truiting stage		carefully harvesting of fruits, without disturbing the roots and stem of the plant
brinjar			may be done.
			- Even if the seedlings are ready for transplanting, transfer it in polybags under
	- Nursery		rain sheltered sheds or low cost polyhouses till the field is ready.
fruit plants like	Planting		- Planting may be done in upland area and treat planting material with
Orange, Lime,			insecticide and fungicide
Lemon, Litchi,			
Animal Science			
Name of the		Disease/ infestation	A one metaprological advisantes
animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months	- Swine Fever	- Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm
O	of age		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.
		- Diarrhoea	- Diarocare bolus (@1.5g); 1-2 bolus twice daily for 4 days.
			- Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give
			Banif-1000 @ 1 tablet per 100kg b.wt.
Goat	All age groups	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with
	except three		vitamins like Livozyme @ 50ml twice daily.
Cattle / Dagfala/	months or below	D.O 1	Variation of DO and HC and and (does not assume define) in
Cattle / Buffalo/ Mithun	All age groups	- B.Q. and Haemorrhagic	- Vaccination of <b>B.Q.</b> and <b>H.S.</b> polyvalent (dose as per recommendation) is
MILLIUII	except three	Septicaemia	advised but deworm with appropriate agent before vaccination.  - Check that the animals do not drink the water that has been drained from hills/
	months or below	Берисаенна	upland areas, as the spores causing B.Q. are abundantly present in it.
		- FMD	- Vaccinate all the susceptible animals against the FMD.
			- Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins
		- Fascioliosis	like Livozyme @ 50ml twice daily.
			- Apply Butox @3ml/lit of water while brushing the animals.
Poultry	All susceptible	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking
1 oditi y	age groups	Cocciaiosis	water) + plus 150gm of Glucose and vit K for 5 to 7 days.
	age groups	Pox	- Vaccinate against pox.
			- To prevent coccidiosis, litter should be kept dry and turned regularly. Apply
		Management	lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean & safe
			drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i> .
Fisheries			drinking water by adding bokena (semazer) to avoid combutations.
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
cmp culture			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	• Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both
			the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	<ul> <li>Hatching can be done in traditional hapas having outer &amp; inner hapas or</li> </ul>
			circular hatcheries. A mild current with fine shower is needed for circular
	Nurseries	ponds	hatcheries. Feed should not be given for 3 days.  - Stock 20-30 lakhs spawns in one hectare water. Water depth should be



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## MANIPUR BULLETIN 14<sup>th</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 15<sup>th</sup> to 19<sup>th</sup> May, 2013 as given below:

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# Weather forecast for next five days of Ukhrul (15<sup>th</sup> to 19<sup>th</sup> May, 2013)

It is likely to have heavy rains on Thursday and light rains in remaining days during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 21.0 - 25.0 °C and minimum temp. of 14.0 – 19.0 °C. The maximum RH is likely to attain a max value of 96 % and minimum RH of 87 %. The average wind speed during next five days may reach upto max. value of 3 km/hr.

#### **Main Weather Observation**

Kalpana 1Cloud Imagery at 0530 hrs IST shows low/ medium clouds over parts of Northeast

### Weather Forecast for next 3 days (upto 0830 hours IST of 17<sup>th</sup> May, 2013)

Rain/thundershowers would occur at many places over northeastern states

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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Tillering to panicle initiation		<ul> <li>Drain out excess water from the crop field. Maintain water depth of 5-8 cm.</li> <li>At 45 days of transplanting (panicle initiation stage), apply 24.25kg Urea.</li> </ul>
	Kharif		Field may be ploughed. Seed beds may be prepared in terraces. Sowing may be done in upland area.
Maize	vegetative	- Shoot borer	<ul> <li>Weeding may be done.</li> <li>Top dressing may be done when the plants is knee high.</li> <li>Apply 2-3 granules of Furadan 3G at the whorl of each plant.</li> </ul>
	Flowering to cob formation		<ul><li>Weeding may be done.</li><li>Maintain proper drainage system to drain out excess water.</li></ul>
Soybean	Land preparation to sowing and early vegetative		- Land preparation and sowing in prepared land may be done. Drain out excess water from field.
Blackgram & Rice bean	Sowing		- Sowing may be done. Field should be made weed free.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture C	Crops		
Proper drainage	should be made to pro	event water logging as	s water logging
Ginger & turmeric	Planting to early vegetative		- If the planting is not yet done, spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is



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	fruiting		ground. Harvest mature fruits.
Chilli/ brinjal	- Fruiting stage - Nursery		<ul> <li>- As there had been rain since past few days, no field practice is advised. Only carefully harvesting of fruits, without disturbing the roots and stem of the plant may be done.</li> <li>- Even if the seedlings are ready for transplanting, transfer it in polybags under rain sheltered sheds or low cost polyhouses till the field is ready.</li> </ul>
fruit plants like	Planting		- Planting may be done in upland area and treat planting material with
Orange, Lime, Lemon, Litchi, etc./ Tree bean	-		insecticide and fungicide
Animal Scienc	es		
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>
		- FMD - Diarrhoea	<ul> <li>- Diarocare bolus (@1.5g); 1-2 bolus twice daily for 4 days.</li> <li>- Deworming with Albomac Syrup @ 5ml/10kg b.wt. in single dose. Also, give Banif-1000 @ 1 tablet per 100kg b.wt.</li> </ul>
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- B.Q. and Haemorrhagic Septicaemia - FMD - Fascioliosis	<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> <li>Check that the animals do not drink the water that has been drained from hills/upland areas, as the spores causing B.Q. are abundantly present in it.</li> <li>Vaccinate all the susceptible animals against the FMD.</li> <li>Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.</li> </ul>
Poultry	All susceptible	Coccidiosis	<ul> <li>- Apply Butox @3ml/lit of water while brushing the animals.</li> <li>- Poultry must be provided Coccidiostat/ Supercox (@ 1g/lit of drinking</li> </ul>
	age groups		water) + plus 150gm of Glucose and vit K for 5 to 7 days.
		Management	<ul> <li>Vaccinate against pox.</li> <li>To prevent coccidiosis, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material. Provide clean &amp; safe drinking water by adding Sokrena (scnitizer) to avoid <i>Colebacilliosis</i>.</li> </ul>
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
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	Breeding	pond	■ Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	• Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	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.