

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 30th April, 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 1st to 5th May, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - East (27 th
Imphal - West (23 rd to 25 th April, 2013)	April to 1 st May, 2013)
During the past four days the sky was partly cloudy to mainly cloudy. 3.9 mm rainfall was recorded during past four days. Maximum temperature range observed was $27.5 - 31.1$ °C, range of minimum temperature observed was $14.0 - 18.0$ °C, mean relative humidity observed in morning and afternoon were 87.5 % and 54.25 % respectively. The average wind speed range was $2.0 - 4.7$ 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 29.0 - 31.0 °C and minimum temp. of 17.0 – 22.0 °C. The maximum RH is likely to attain a max value of 98 % and minimum RH of 71 %. The average wind speed during next five days may reach upto max. value of 2 km/hr.

Main Weather Observation

Low/ medium and convective clouds are seen over northeastern states

Weather Forecast for next 3 days (upto 0830 hours IST of 3rd May, 2013)

Rain/thundershowers would occur at many places over northeastern states and is likely to increase from tomorrow onwards

Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 24hrs

Weather Outlook for subsequent 4 days from 3rd to 7th 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		- After 30-35 days of transplanting, completely remove water and top dress with 33 kg Urea and 16 kg MOP per hectare. After 48 hrs, irrigate the field and maintain water depth of 5-8 cm
	Kharif		Field may be ploughed.
Maize	Sowing		 Sowing may be done by maintaining a spacing of 60cm x 30cm. Top dressing may be done when the plants is knee high.
	Silking stage		- Weeding may be done.
Groundnut & soybean	Land preparation to sowing		- Sowing may be done in prepared field.
Blackgram & Rice bean	Land preparation		Land preparation may be started 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 &	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to
turmeric			row) and turmeric (25cm plant to plant and 40-45cm row to row).
Cucurbits	Flowering to fruiting	Red Pumpkin Beetle	- Use Methyl Euginol @ 4-5 drops/ 150-200 ml of water as trap against Red Pumpkin Beetle.
Colocassia	Corm treatment		- Corm treatment should be done with Carbendazim @ 2 gm/lit of water for 20-30 minutes and then dry in the shed before sowing.





Fruits	Small seedlings/		- Minimum life saving irrigation should be given in all nurseries.
r runts	cutting of citrus,		- Mulching with dried twigs/ vegetables leaves will help to retain moisture
	papaya & passion		till rain comes.
	fruit		un rain comes.
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		
* Take up meas	sures for mosquito p	opulation control at farm	m premises.
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
		7.0	use Korean strain vaccine.
<u> </u>		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 <i>B.Q. and H.S.</i> polyvalent (dose as per recommendation) is 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.
v	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			
	erate rainfall water s	hould not be allowed to	drain directly into the ponds as it may contaminate with unwanted elements
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Main Weather Observation

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Weather Forecast for next 3 days (upto 0830 hours IST of 3rd May, 2013)

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	-		- Top dressing may be done when the plants is knee high.
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	fruit		till fall collies.
Orange	Grown-up trees		In orange, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30
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* Take up meas	sures for mosquito p	opulation control at far	m premises.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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	0		use Korean strain vaccine.
		FMD	- Vaccinate all the susceptible animals against the FMD.
Cattle / Buffalo/	All age groups	- B.Q. and	- Vaccination of B.Q. and H.S. 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.
I outer y	All susceptible	Coccidiosis	- Poultry must be provided <i>Coccidiostat/ Supercox</i> (@ 1g/lit of drinking
	age groups	cocciniosis	<i>water</i>) + plus 150gm of Glucose and vit K for 5 to 7 days.
	-8- 8F-	Management	 Provide clean & safe drinking water by adding Sokrena (scnitizer) to avoid
		Widnagement	<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			
	prate rainfall waters	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	Diooders	r ond and water	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	 Pond should be free from silt, weeds, insects and other unwanted fishes.
	Diccung	pond	• p^{H} of water must be maintained at 7.0-8.0
			 Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both
			the brooders @ 0.5 - 0.7 <i>ml/kg</i> of fish (grass carp).
	Hatcheries	water	• Water should be clear and clean with pH 7.0-7.5 and dissolved oxygen
			level should be 6-8 ppm.
			• 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	- Stocked 20-30 lakhs spawns in one hectare water. Water depth should be
		1	



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 30th April, 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 1st to 5th May, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong (27 th April
Imphal - West (23 rd to 25 th April, 2013)	to 1 st May, 2013)
During the past four days the sky was partly cloudy to mainly cloudy. 3.9 mm rainfall was recorded during past four days. Maximum temperature range observed was $27.5 - 31.1$ °C, range of minimum temperature observed was $14.0 - 18.0$ °C, mean relative humidity observed in morning and afternoon were 87.5 % and 54.25 % respectively. The average wind speed range was $2.0 - 4.7$ 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 $30.0 - 35.0$ °C and minimum temp. of $19.0 - 21.0$ °C. The maximum RH is likely to attain a max value of 98 % and minimum RH of 60 %. The average wind speed during next five days may reach upto max. value of 3 km/hr.

Main Weather Observation

Low/ medium and convective clouds are seen over northeastern states

Weather Forecast for next 3 days (upto 0830 hours IST of 3rd May, 2013)

Rain/thundershowers would occur at many places over northeastern states and is likely to increase from tomorrow onwards

Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 24hrs

Weather Outlook for subsequent 4 days from 3rd to 7th May, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Vegetative		 Maintain 5-8 cm of water depth in the crop field. After 30-35 days of transplanting, completely remove water and top dress
			with 33 kg Urea and 16 kg MOP per hectare. After 48 hrs, irrigate the field and maintain water depth of 5-8 cm
	Kharif		Field may be ploughed.
Maize	Sowing		Sowing may be done by maintaining a spacing of 60cm x 30cm.Top dressing may be done when the plants is knee high.
	Silking stage		- Weeding may be done.
Groundnut & soybean	Land preparation to sowing		- Sowing may be done in prepared field.
Blackgram & Rice bean	Land preparation		Land preparation may be started 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 &	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to
turmeric			row) and turmeric (25cm plant to plant and 40-45cm row to row).
Cucurbits	Flowering to fruiting	Red Pumpkin Beetle	- Use Methyl Euginol @ 4-5 drops/ 150-200 ml of water as trap against Red Pumpkin Beetle.
Colocassia	Corm treatment		- Corm treatment should be done with Carbendazim @ 2 gm/lit of water for 20-30 minutes and then dry in the shed before sowing.





Fruits	Small seedlings/		- Minimum life saving irrigation should be given in all nurseries.
Fruits	cutting of citrus,		- Mulching with dried twigs/ vegetables leaves will help to retain moisture
	papaya & passion		till rain comes.
	fruit		tin fair comes.
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		
* Take up meas	sures for mosquito p	opulation control at far	m premises.
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
	01 480		use Korean strain vaccine.
		FMD	- Vaccinate all the susceptible animals against the FMD.
Cattle / Buffalo/	All age groups	- B.Q. and	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is
Mithun	except three months or below	Haemorrhagic Septicaemia	advised but deworm with appropriate agent before vaccination.
	months of below	- FMD	- Vaccinate all the susceptible animals against the FMD.
		Ranikhet Disease	- Birds should be vaccinated against <i>Ranikhet disease</i> but deworm before
Poultry		Rummer Discuse	vaccination.
J	All susceptible	Coccidiosis	- Poultry must be provided Coccidiostat/ Supercox (@ 1g/lit of drinking
	age groups		<i>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			
* 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.
	Breeding	pond	• Pond should be free from silt, weeds, insects and other unwanted fishes.
	_		• p ^H of water must be maintained at 7.0-8.0
			• 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).
	Hatcheries	water	• Water should be clear and clean with pH 7.0-7.5 and dissolved oxygen
			level should be 6-8 ppm.
			• Hatching can be done in traditional hapas having outer & inner hapas or
			circular hatcheries. A mild current with fine shower is needed for circular
	Namenie	a a a da	hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stocked 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 30th April, 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 1st to 5th May, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal (27 th April to
Imphal - West (23 rd to 25 th April, 2013)	1 st May, 2013)
During the past four days the sky was partly cloudy to mainly cloudy. 3.9 mm rainfall was recorded during past four days. Maximum temperature range observed was $27.5 - 31.1$ °C, range of minimum temperature observed was $14.0 - 18.0$ °C, mean relative humidity observed in morning and afternoon were 87.5 % and 54.25 % respectively. The average wind speed range was $2.0 - 4.7$ 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 $30.0 - 33.0$ °C and minimum temp. of $16.0 - 20.0$ °C. The maximum RH is likely to attain a max value of 96 % and minimum RH of 68 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Main Weather Observation

Low/ medium and convective clouds are seen over northeastern states

Weather Forecast for next 3 days (upto 0830 hours IST of 3rd May, 2013)

Rain/thundershowers would occur at many places over northeastern states and is likely to increase from tomorrow onwards

Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 24hrs

Weather Outlook for subsequent 4 days from 3rd to 7th May, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		incstation	I
Rice	(Pre-kharif)		- Maintain 5-8 cm of water depth in the crop field.
	Vegetative		- After 30-35 days of transplanting, completely remove water and top dress with 33 kg Urea and 16 kg MOP per hectare. After 48 hrs, irrigate the field and maintain water depth of 5-8 cm
	Kharif		Field may be ploughed.
Maize	Sowing		 Sowing may be done by maintaining a spacing of 60cm x 30cm. Top dressing may be done when the plants is knee high.
	Silking stage		- Weeding may be done.
Groundnut & soybean	Land preparation to sowing		- Sowing may be done in prepared field.
Blackgram & Rice bean	Land preparation		Land preparation may be started 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	Frops	·	
Ginger & turmeric	Planting		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).
Cucurbits	Flowering to fruiting	Red Pumpkin Beetle	- Use Methyl Euginol @ 4-5 drops/ 150-200 ml of water as trap against Red Pumpkin Beetle.
Colocassia	Corm treatment		- Corm treatment should be done with Carbendazim @ 2 gm/lit of water for 20-30 minutes and then dry in the shed before sowing.





Fruits	Small seedlings/		- Minimum life saving irrigation should be given in all nurseries.
Fruits	cutting of citrus,		- Mulching with dried twigs/ vegetables leaves will help to retain moisture
	papaya & passion		till rain comes.
	fruit		un rain comes.
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		
		opulation control at far	m premises.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months	Swine Fever	- Vaccinate with Swine Fever 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.
Cattle / Buffalo/	All age groups	- B.Q. and	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is
Mithun	except three	Haemorrhagic	advised but deworm with appropriate agent before vaccination.
	months or below	Septicaemia - FMD	
			- Vaccinate all the susceptible animals against the FMD.
		Ranikhet Disease	- Birds should be vaccinated against Ranikhet disease but deworm before
Poultry			vaccination.
	All susceptible	Coccidiosis	- Poultry must be provided Coccidiostat/ Supercox (@ 1g/lit of drinking
	age groups		<i>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
		-	Colebacilliosis. 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
			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	• Pond should be free from silt, weeds, insects and other unwanted fishes.
			• p ^H of water must be maintained at 7.0-8.0
			• 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).
	Hatcheries	water	• Water should be clear and clean with pH 7.0-7.5 and dissolved oxygen
			level should be 6-8 ppm.
			• 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	- Stocked 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 30th April, 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 1st to 5th May, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul (27 th April to 1 st
Imphal - West (23 rd to 25 th April, 2013)	May, 2013)
During the past four days the sky was partly cloudy to mainly cloudy. 3.9 mm rainfall was recorded during past four days. Maximum temperature range observed was $27.5 - 31.1$ °C, range of minimum temperature observed was $14.0 - 18.0$ °C, mean relative humidity observed in morning and afternoon were 87.5 % and 54.25 % respectively. The average wind speed range was $2.0 - 4.7$ 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 $13.0 - 19.0$ °C. The maximum RH is likely to attain a max value of 96 % and minimum RH of 55 %. The average wind speed during next five days may reach upto max. value of 3 km/hr.

Main Weather Observation

Low/ medium and convective clouds are seen over northeastern states

Weather Forecast for next 3 days (upto 0830 hours IST of 3rd May, 2013)

Rain/thundershowers would occur at many places over northeastern states and is likely to increase from tomorrow onwards

Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 24hrs

Weather Outlook for subsequent 4 days from 3rd to 7th May, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		micotution	
Rice	(Pre-kharif)		 Maintain 5-8 cm of water depth in the crop field. After 30-35 days of transplanting, completely remove water and top dress
	Vegetative		with 33 kg Urea and 16 kg MOP per hectare. After 48 hrs, irrigate the field and maintain water depth of 5-8 cm
	Kharif		Field may be ploughed.
Maize	Sowing		 Sowing may be done by maintaining a spacing of 60cm x 30cm. Top dressing may be done when the plants is knee high.
	Silking stage		- Weeding may be done.
Soybean	Land preparation to sowing		- Sowing may be done in prepared field.
Blackgram & Rice bean	Land preparation		Land preparation may be started 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 &	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to
turmeric			row) and turmeric (25cm plant to plant and 40-45cm row to row).
Cucurbits	Flowering to fruiting	Red Pumpkin Beetle	- Use Methyl Euginol @ 4-5 drops/ 150-200 ml of water as trap against Red Pumpkin Beetle.
Colocassia	Corm treatment		- Corm treatment should be done with Carbendazim @ 2 gm/lit of water for 20-30 minutes and then dry in the shed before sowing.







Fruits	Small seedlings/ cutting of citrus, papaya & passion fruit		 Minimum life saving irrigation should be given in all nurseries. Mulching with dried twigs/ vegetables leaves will help to retain moisture till rain comes.
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		
* Take up meas	sures for mosquito po	opulation control at farm	m premises.
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. Vaccinate all the susceptible animals against the FMD.
Cattle / Buffalo/ Mithun	All age groups except three months or below	- B.Q. and Haemorrhagic Septicaemia - FMD	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination.
Poultry		Ranikhet Disease	 Vaccinate all the susceptible animals against the FMD. Birds should be vaccinated against <i>Ranikhet disease</i> but deworm before vaccination.
All su	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 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	 Pond should be free from silt, weeds, insects and other unwanted fishes. p^H of water must be maintained at 7.0-8.0 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).
	Hatcheries	water	 Water should be clear and clean with pH 7.0-7.5 and dissolved oxygen level should be 6-8 ppm. 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	- Stocked 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 30th April, 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 1st to 5th May, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur (27 th April
Imphal - West (23 rd to 25 th April, 2013)	to 1 st May, 2013)
During the past four days the sky was partly cloudy to mainly cloudy. 3.9 mm rainfall was recorded during past four days. Maximum temperature range observed was $27.5 - 31.1$ °C, range of minimum temperature observed was $14.0 - 18.0$ °C, mean relative humidity observed in morning and afternoon were 87.5 % and 54.25 % respectively. The average wind speed range was $2.0 - 4.7$ 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 $30.0 - 33.0$ °C and minimum temp. of $18.0 - 21.0$ °C. The maximum RH is likely to attain a max value of 97 % and minimum RH of 62 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Main Weather Observation

Low/ medium and convective clouds are seen over northeastern states

Weather Forecast for next 3 days (upto 0830 hours IST of 3rd May, 2013)

Rain/thundershowers would occur at many places over northeastern states and is likely to increase from tomorrow onwards

Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 24hrs

Weather Outlook for subsequent 4 days from 3rd to 7th 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		- After 30-35 days of transplanting, completely remove water and top dress with 33 kg Urea and 16 kg MOP per hectare. After 48 hrs, irrigate the field and maintain water depth of 5-8 cm
	Kharif		Field may be ploughed.
Maize	Sowing		 Sowing may be done by maintaining a spacing of 60cm x 30cm. Top dressing may be done when the plants is knee high.
	Silking stage		- Weeding may be done.
Groundnut & soybean	Land preparation to sowing		- Sowing may be done in prepared field.
Blackgram & Rice bean	Land preparation		Land preparation may be started 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 &	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to
turmeric			row) and turmeric (25cm plant to plant and 40-45cm row to row).
Cucurbits	Flowering to fruiting	Red Pumpkin Beetle	- Use Methyl Euginol @ 4-5 drops/ 150-200 ml of water as trap against Red Pumpkin Beetle.
Colocassia	Corm treatment		- Corm treatment should be done with Carbendazim @ 2 gm/lit of water for 20-30 minutes and then dry in the shed before sowing.





Small seedlings/		- Minimum life saving irrigation should be given in all nurseries.
		- Mulching with dried twigs/ vegetables leaves will help to retain moisture
		till rain comes.
fruit		un rain comes.
Grown-up trees		In orange, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30
		kg cowdung manure compost.
?S		
ares for mosquito po	opulation control at farm	m premises.
Growth stage	Disease/ infestation	Agro-meteorological advisories
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.
All age groups except three months or below	- B.Q. and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised but deworm with appropriate agent before vaccination.
	- FMD	- Vaccinate all the susceptible animals against the FMD.
	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> (@ <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.
rate rainfall water s	hould not be allowed to	drain directly into the ponds as it may contaminate with unwanted elements.
		Agro-metrological advisories
		Ensure good quality/ clean water free from unwanted plants and animals
biooders	I ond and water	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	Pond should be free from silt, weeds, insects and other unwanted fishes.
6	r · ·	• p ^H of water must be maintained at 7.0-8.0
		• 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).
Hatcheries	water	• Water should be clear and clean with pH 7.0-7.5 and dissolved oxygen level should be 6-8 ppm.
		 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.
	Grown-up trees S Grown-up trees res for mosquito po Growth stage Above 3 months of age All age groups except three months or below All susceptible age groups Fate rainfall, water so Stage Brooders Breeding	cutting of citrus, papaya & passion fruitdescription fruitGrown-up treesImage: Control at far.Growth stageDisease/ infestationAbove 3 months of ageSwine FeverAll age groups except three months or below- B.Q. and Haemorrhagic Septicaemia - FMDAll susceptible age groupsCoccidiosis ManagementAll susceptible age groupsManagementAll susceptible



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 30th April, 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 1st to 5th May, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel $(27^{th} \text{ April to})$
Imphal - West (23 rd to 25 th April, 2013)	1^{st} May, 2013
During the past four days the sky was partly cloudy to mainly cloudy. 3.9 mm rainfall was recorded during past four days. Maximum temperature range observed was $27.5 - 31.1$ °C, range of minimum temperature observed was $14.0 - 18.0$ °C, mean relative humidity observed in morning and afternoon were 87.5 % and 54.25 % respectively. The average wind speed range was $2.0 - 4.7$ 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 $30.0 - 35.0$ °C and minimum temp. of $19.0 - 24.0$ °C. The maximum RH is likely to attain a max value of 95 % and minimum RH of 56 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Main Weather Observation

Low/ medium and convective clouds are seen over northeastern states

Weather Forecast for next 3 days (upto 0830 hours IST of 3rd May, 2013)

Rain/thundershowers would occur at many places over northeastern states and is likely to increase from tomorrow onwards

Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 24hrs

Weather Outlook for subsequent 4 days from 3rd to 7th May, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		incstation	I
Rice	(Pre-kharif)		- Maintain 5-8 cm of water depth in the crop field.
	Vegetative		- After 30-35 days of transplanting, completely remove water and top dress with 33 kg Urea and 16 kg MOP per hectare. After 48 hrs, irrigate the field and maintain water depth of 5-8 cm
	Kharif		Field may be ploughed.
Maize	Sowing		 Sowing may be done by maintaining a spacing of 60cm x 30cm. Top dressing may be done when the plants is knee high.
	Silking stage		- Weeding may be done.
Groundnut & soybean	Land preparation to sowing		- Sowing may be done in prepared field.
Blackgram & Rice bean	Land preparation		Land preparation may be started 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	Frops	·	
Ginger & turmeric	Planting		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).
Cucurbits	Flowering to fruiting	Red Pumpkin Beetle	- Use Methyl Euginol @ 4-5 drops/ 150-200 ml of water as trap against Red Pumpkin Beetle.
Colocassia	Corm treatment		- Corm treatment should be done with Carbendazim @ 2 gm/lit of water for 20-30 minutes and then dry in the shed before sowing.





Fruits	Small seedlings/		- Minimum life saving irrigation should be given in all nurseries.
Fruits	cutting of citrus,		- Mulching with dried twigs/ vegetables leaves will help to retain moisture
	papaya & passion		till rain comes.
	fruit		un rain comes.
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		
		opulation control at far	m premises.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months	Swine Fever	- Vaccinate with Swine Fever 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.
Cattle / Buffalo/	All age groups	- B.Q. and	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is
Mithun	except three	Haemorrhagic	advised but deworm with appropriate agent before vaccination.
	months or below	Septicaemia - FMD	
			- Vaccinate all the susceptible animals against the FMD.
		Ranikhet Disease	- Birds should be vaccinated against Ranikhet disease but deworm before
Poultry			vaccination.
	All susceptible	Coccidiosis	- Poultry must be provided Coccidiostat/ Supercox (@ 1g/lit of drinking
	age groups		<i>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
		_	Colebacilliosis. 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
			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	• Pond should be free from silt, weeds, insects and other unwanted fishes.
			• p ^H of water must be maintained at 7.0-8.0
			• 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).
	Hatcheries	water	• Water should be clear and clean with pH 7.0-7.5 and dissolved oxygen
			level should be 6-8 ppm.
			• 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	- Stocked 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 30th April, 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 1st to 5th May, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (23 rd to 25 th April, 2013)	Weather forecast for next five days of Tamenglong (27 th April to 1 st May, 2013)
During the past four days the sky was partly cloudy to mainly cloudy. 3.9 mm rainfall was recorded during past four days. Maximum temperature range observed was $27.5 - 31.1$ °C, range of minimum temperature observed was $14.0 - 18.0$ °C, mean relative humidity observed in morning and afternoon were 87.5 % and 54.25 % respectively. The average wind speed range was $2.0 - 4.7$ 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 29.0 - 34.0 °C and minimum temp. of 19.0 - 21.0 °C. The maximum RH is likely to attain a max value of 97 % and minimum RH of 50 %. The average wind speed during next five days may reach upto max. value of 5 km/hr.

Main Weather Observation

Low/ medium and convective clouds are seen over northeastern states

Weather Forecast for next 3 days (upto 0830 hours IST of 3rd May, 2013)

Rain/thundershowers would occur at many places over northeastern states and is likely to increase from tomorrow onwards

Weather warning during next 3 days

Thundersquall would occur at one or two places over Manipur during next 24hrs

Weather Outlook for subsequent 4 days from 3rd to 7th May, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		micstation	<u> </u>
Rice	(Pre-kharif) Vegetative		 Maintain 5-8 cm of water depth in the crop field. After 30-35 days of transplanting, completely remove water and top dress with 33 kg Urea and 16 kg MOP per hectare. After 48 hrs, irrigate the field water and 16 kg MOP per hectare.
	Kharif		and maintain water depth of 5-8 cm Field may be ploughed.
Maize	Sowing		 Sowing may be done by maintaining a spacing of 60cm x 30cm. Top dressing may be done when the plants is knee high.
	Silking stage		- Weeding may be done.
Groundnut & soybean	Land preparation to sowing		- Sowing may be done in prepared field.
Blackgram & Rice bean	Land preparation		Land preparation may be started 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		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).
Cucurbits	Flowering to fruiting	Red Pumpkin Beetle	- Use Methyl Euginol @ 4-5 drops/ 150-200 ml of water as trap against Red Pumpkin Beetle.
Colocassia	Corm treatment		- Corm treatment should be done with Carbendazim @ 2 gm/lit of water for 20-30 minutes and then dry in the shed before sowing.





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Fruits	Small seedlings/		- Minimum life saving irrigation should be given in all nurseries.
	cutting of citrus,		- Mulching with dried twigs/ vegetables leaves will help to retain moisture
	papaya & passion		till rain comes.
	fruit		
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		
* Take up meas	sures for mosquito p	opulation control at far	m premises.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months	Swine Fever	- Vaccinate with Swine Fever vaccine as per prescribed dose but de-worm
1 I <u>g</u>	of age	S while I ever	using Panacur tab @ 1.5mg/10kg body weight before vaccination. Don't
	of age		use Korean strain vaccine.
		EMD	
	4.11	FMD	- Vaccinate all the susceptible animals against the FMD.
Cattle / Buffalo/	All age groups	- B.Q. and	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is
Mithun	except three	Haemorrhagic	advised but deworm with appropriate agent before vaccination.
	months or below	Septicaemia - FMD	
		- FMD	- Vaccinate all the susceptible animals against the FMD.
		Ranikhet Disease	- Birds should be vaccinated against Ranikhet disease but deworm before
Poultry			vaccination.
	All susceptible	Coccidiosis	- Poultry must be provided Coccidiostat/ Supercox (@ 1g/lit of drinking
	age groups		<i>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
		Management	<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			
			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	• Pond should be free from silt, weeds, insects and other unwanted fishes.
	6	I T	• p ^H of water must be maintained at 7.0-8.0
			 Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both
			the brooders @ 0.5 - 0.7 <i>ml/kg</i> of fish (grass carp).
	Hatcheries	water	 Water should be clear and clean with pH 7.0-7.5 and dissolved oxygen
	Tratelleries	water	level should be 6-8 ppm.
			 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	- Stocked 20-30 lakhs spawns in one hectare water. Water depth should be
	1		more than 1.0 m. Feeding should be given@5-10% body weight/day.