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



#### "Gramin Krishi Mausam Seva"

#### MANIPUR BULLETIN 6<sup>th</sup> May, 2016

#### 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 7<sup>th</sup> to 11<sup>th</sup> May, 2016 as

#### Significant past weather for the preceding bi-weekly of Imphal - West (3<sup>rd</sup> to 5<sup>th</sup> May, 2016)

The sky was fair to overcast. Rainfall of 1.9 mm was recorded during past three days. Maximum temperature range observed was 24.0 to 29.9 °C, range of minimum temperature observed was 17.8 to 20.3 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 58.0 % respectively. The average wind speed range was 3.1 to 3.7 km/hr.

#### Weather forecast for next five days of Bishnupur (7<sup>th</sup> to 11<sup>th</sup> May, 2016)

Likely to have light rain upto Wednesday. Sky will remain variable, with maximum temp. 29.0 to 30.0  $^{\circ}$  C & minimum temp. 17.0 to 18.0  $^{\circ}$  C. Relative humidity may reach upto 100 % (max RH) & 30 % (min RH). The average wind speed may be 3-4 km/hr. Wind direction may be South Easterly to North-west Westerly during the next five days.

Weather Outlook for subsequent 2 days from 10<sup>th</sup> to 12<sup>th</sup> May, 2016 Rain/thunderstorm likely at many places over northeastern states Weather Warning during next 5 days Heavy rain likely at isolated places over northeastern states

Name of the cro	op	Stage Pest and disease		se	Agro-meteorological advisories			
Field Crops				•	•			
Kharif rice					-laı	nd preparation for sowing kharif rice may be started.		
Rabi Maize		Cob form	nation	Stem borer	3G	To control the infestation of stem borer, apply few granules of Carbofuradan at maize whorl.		
Soybean/ Ground Blackgram		Land preparat	ion		- A	and preparation for sowing of soybean/ groundnut/ blackgram may be started. Apply $10 - 13$ t/ha or $2.5 - 3$ t/sangam of FYM or compost by mixing roughly in the soil $1 - 2$ weeks before sowing.		
Horticulture Crops								
Tomato		Harvest	ing		-50	0% mature/ripen fruits may be harvested and kept in a cooler place.		
				Mite		To prevent small sucking insects in the lower surface of leaves, use nion 0.05% or Neem oil @2-3 ml / lit of water.		
Ginger/Turmerio	c	Preparation for sowing		-Sp -Tr ½ l -Sp - D -M -Co	ne seed rhizome should be screened from pest and diseases bread in the shed for 1-2 days eat rhizome with Captan 50 W P or Hexaconazeb @ 3gm/kg seed & keep for nour and sowing may be done. Sacing for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm resirable weight of rhizome-15-25 gm with 2-3buds. Sulching with dried twigs/paddy straw is recommended. Somplete sowing as early as possible preferably in the upland areas. Sichoderma harzianum may also be used for seed treatment.			
Bhindi/cowpea		Sowing				-Proper drainage should be given to drain excess water -Sowing should be done in permissible field condition.		
Water melon		Flowering fruiting	ng to		Ch hig	ances of cracking of fruit are high with rains after a dry spell (with the temperature). To avoid cracking cover the fruit with leaves/ dryigs.		
Allium odorosum					-Hi yie -Co	antation of <i>Allium odorosum</i> (Maroi nakuppi).  Igh density planting (1-0-12 nos. of rhizome) per hill is recommended for high ld at a spacing of 6" X 6".  Igh priander seed may also be sown in between the Allium Species as an intercrop.		
Fruit plants (Banana, Procure		Procure	ment of			-Jungle cutting and preparation of pit for planting/transplanting of these fruit		
Lime, Lemon,		planting material		ıl		nts should be started. Pit preparation should be done atleast 1 month ahead of		
Orange, Kiwi, etc.)					nting. ocure quality planting material			
Animal Sciences		1		1		1 71 6		
Name of the	Growth	ı stage	Disease	e/ infestation		Agro-meteorological advisories		
animal Poultry	All age groups			- To protect from dehydration, provision for wholesome and clear water				

# (Chicken/ (cool) be maintained properly atleast four times during the day.



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



Turkey/ Duck) Sheep/ Goat	All age groups	Ranikhet Diseases		Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March-April months.  1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.  2. R <sub>2</sub> B vaccine of 8-9 weeks of age group birds (layers).  3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).  After that at every two months interval.  - Pepirazine compound- 100mg/kg orally for 3 days.	
Sheep/ Goat	excepts the young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
Pig	All age groups	Deworming		-Give Morantel citrate tablet @ 15 mg/kg of body weight.	
	excepts the young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
		Hog Cholera		-Vaccination against swine fever must be carried out.	
Cattle	All age groups excepts the	B.Q./ H.S/FMD		-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.	
	young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
		Endoparasites		- Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.	
		Fodder crops		-Maize should be sown for use as green fodderNapier/Guinea grass may be transplantedSilage can be prepared.	
		Puerperal Fever in Pre animals	gnant	-50-60 gram of mineral mixture every day.	
		Decrease in milk prod	uction	-The milk & urine samples must be sent for testing.	
	Breedable age group	Controlled breeding		-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.	
	Milch cow	Mastitis		-To prevent mastitis they should be milked completely.	
Fishery:				-	
Type of Farming	Stage	Management		etrological advisories	
Carp culture	Fries/ fingerlings/	Pond and water	-Apply A	n minimum depth of $1.5 - 2.0$ m by filling fresh and clean water. Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.	
	brooders	Feed		feed 1-2 times @ 2 % body weight per day.	
		Fish - Male ar programs		nd female brooders should be stock in separate ponds for early breeding s for Common Carp.  ting of fish may be done in area where water availability is low.	



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



#### "Gramin Krishi Mausam Seva"

## MANIPUR BULLETIN 6<sup>th</sup> May, 2016

#### Chandel

(Chicken/

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 7<sup>th</sup> to 11<sup>th</sup> May, 2016 as below:

## Significant past weather for the preceding bi-weekly of Imphal - West $(3^{rd}$ to $5^{th}$ May, 2016)

The sky was fair to overcast. Rainfall of 1.9 mm was recorded during past three days. Maximum temperature range observed was 24.0 to 29.9  $^{\circ}\text{C},$  range of minimum temperature observed was 17.8 to 20.3  $^{\circ}$  C, mean relative humidity observed in morning and afternoon were 89.3 % and 58.0 % respectively. The average wind speed range was 3.1 to 3.7 km/hr.

## Weather forecast for next five days of Chandel $(7^{th} \text{ to } 11^{th} \text{ May}, 2016)$

(cool) be maintained properly atleast four times during the day.

Likely to have light rain upto Wednesday. Sky will remain variable to mainly cloudy, with maximum temp. 29.0 to 30.0  $^{\circ}$  C & minimum temp. 18.0 to 19.0  $^{\circ}$  C. Relative humidity may reach upto 100 % (max RH) & 40 % (min RH). The average wind speed may be 4-5 km/hr. Wind direction may be Westerly to North Westerly during the next five days.

Name of the cro	р	Sta	Stage Pest and disease		disease	Agro-meteorological advisories	
Field Crops					•		
Kharif rice						-land preparation for sowing kharif rice may be started.	
Rabi Maize		Cob form	nation	Stem bore		- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.	
Soybean/ Ground Blackgram	dnut/	Land preparat	ion			- Land preparation for sowing of soybean/ groundnut/ blackgram may be started Apply $10-13$ t/ha or $2.5-3$ t/sangam of FYM or compost by mixing thoroughly in the soil $1-2$ weeks before sowing.	
Horticulture Crops							
Tomato		Harvest	ing			-50% mature/ripen fruits may be harvested and kept in a cooler place.	
				Mite		- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.	
Ginger/Turmerio	c	Preparation for sowing			-The seed rhizome should be screened from pest and diseases -Spread in the shed for 1-2 days -Treat rhizome with Captan 50 W P or Hexaconazeb @ 3gm/kg seed & keep for ½ hour and sowing may be doneSpacing for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm - Desirable weight of rhizome-15-25 gm with 2-3budsMulching with dried twigs/paddy straw is recommendedComplete sowing as early as possible preferably in the upland areasTrichoderma harzianum may also be used for seed treatment.		
Bhindi/cowpea		Sowing				-Proper drainage should be given to drain excess water -Sowing should be done in permissible field condition.	
Water melon		Flowering fruiting	ng to			Chances of cracking of fruit are high with rains after a dry spell (wi high temperature). To avoid cracking cover the fruit with leaves/ dry twigs.	
Allium odorosum				-Plantation of <i>Allium odorosum</i> (Maroi nakuppi)High density planting (1-0-12 nos. of rhizome) per hill is recommended for hig yield at a spacing of 6" X 6"Coriander seed may also be sown in between the Allium Species as an intercret			
Fruit plants (Bar	lants (Banana, Procurement of			-Jungle cutting and preparation of pit for planting/transplanting of these fruit			
Lime, Lemon, pla		planting	planting material			plants should be started. Pit preparation should be done atleast 1 month ahead of	
Orange, Kiwi, etc.)						plantingProcure quality planting material	
Animal Sciences				L	L	- ••	
	Growth	ı stage	Disease	e/ infestation	1	Agro-meteorological advisories	
	All age	l age groups Care & management			- To protect from dehydration, provision for wholesome and clear water		



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



Turkey/ Duck) Sheep/ Goat	All age groups	Ranikhet Diseases		Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March-April months.  1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.  2. R <sub>2</sub> B vaccine of 8-9 weeks of age group birds (layers).  3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).  After that at every two months interval.  - Pepirazine compound- 100mg/kg orally for 3 days.	
Sheep/ Goat	excepts the young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
Pig	All age groups	Deworming		-Give Morantel citrate tablet @ 15 mg/kg of body weight.	
	excepts the young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
		Hog Cholera		-Vaccination against swine fever must be carried out.	
Cattle	All age groups excepts the	B.Q./ H.S/FMD		-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.	
	young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
		Endoparasites		- Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.	
		Fodder crops		-Maize should be sown for use as green fodderNapier/Guinea grass may be transplantedSilage can be prepared.	
		Puerperal Fever in Pre animals	gnant	-50-60 gram of mineral mixture every day.	
		Decrease in milk prod	uction	-The milk & urine samples must be sent for testing.	
	Breedable age group	Controlled breeding		-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.	
	Milch cow	Mastitis		-To prevent mastitis they should be milked completely.	
Fishery:				-	
Type of Farming	Stage	Management		etrological advisories	
Carp culture	Fries/ fingerlings/	Pond and water	-Apply A	n minimum depth of $1.5 - 2.0$ m by filling fresh and clean water. Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.	
	brooders	Feed		feed 1-2 times @ 2 % body weight per day.	
		Fish - Male ar programs		nd female brooders should be stock in separate ponds for early breeding s for Common Carp.  ting of fish may be done in area where water availability is low.	



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



#### "Gramin Krishi Mausam Seva"

#### MANIPUR BULLETIN 6<sup>th</sup> May, 2016

#### Churchandpur

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 7<sup>th</sup> to 11<sup>th</sup> May, 2016 as

## Significant past weather for the preceding bi-weekly of Imphal - West $(3^{rd}$ to $5^{th}$ May, 2016)

The sky was fair to overcast. Rainfall of 1.9 mm was recorded during past three days. Maximum temperature range observed was 24.0 to 29.9  $^{\rm o}{\rm C},$  range of minimum temperature observed was 17.8 to 20.3  $^{\rm o}{\rm C},$  mean relative humidity observed in morning and afternoon were 89.3 % and 58.0 % respectively. The average wind speed range was 3.1 to 3.7 km/hr.

## Weather forecast for next five days of Churchandpur $(7^{th} \text{ to } 11^{th} \text{ May}, 2016)$

Likely to have light rain upto Wednesday. Sky will remain variable with maximum temp. 28.0 to 30.0  $^{\circ}$  C & minimum temp. 19.0 to 20.0  $^{\circ}$  C. Relative humidity may reach upto 92 % (max RH) & 31 % (min RH). The average wind speed may be 3-4 km/hr. Wind direction may be South Easterly to South-west Westerly during the next five days.

Name of the crop	p S	tage	Pest	t and disease	Agro-meteorological advisories		
Field Crops			1				
Kharif rice					-land preparation for sowing kharif rice may be started.		
Rabi Maize	Cob for	rmation	Stem	borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.		
Soybean/ Ground Blackgram	hut/ Land prepar	ation			<ul> <li>- Land preparation for sowing of soybean/ groundnut/ blackgram may be started.</li> <li>- Apply 10 - 13 t/ha or 2.5 - 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.</li> </ul>		
Horticulture Crops							
Tomato	Harve	sting			-50% mature/ripen fruits may be harvested and kept in a cooler place.		
		_		Mite	- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.		
Ginger/Turmeric		Preparation for sowing			-The seed rhizome should be screened from pest and diseases -Spread in the shed for 1-2 days -Treat rhizome with Captan 50 W P or Hexaconazeb @ 3gm/kg seed & keep for ½ hour and sowing may be doneSpacing for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm - Desirable weight of rhizome-15-25 gm with 2-3budsMulching with dried twigs/paddy straw is recommendedComplete sowing as early as possible preferably in the upland areasTrichoderma harzianum may also be used for seed treatment.		
Bhindi/cowpea	Sowin	g			-Proper drainage should be given to drain excess water -Sowing should be done in permissible field condition.		
Water melon	Flowe				Chances of cracking of fruit are high with rains after a dry spell (with high temperature). To avoid cracking cover the fruit with leaves/ dry twigs.		
Allium odorosum					-Plantation of <i>Allium odorosum</i> (Maroi nakuppi)High density planting (1-0-12 nos. of rhizome) per hill is recommended for high yield at a spacing of 6" X 6"Coriander seed may also be sown in between the Allium Species as an intercrop.		
Fruit plants (Bana Lime, Lemon, Orange, Kiwi, etc	plantir	Procurement of planting material			-Jungle cutting and preparation of pit for planting/transplanting of these fruit plants should be started. Pit preparation should be done atleast 1 month ahead of plantingProcure quality planting material		
Animal Sciences							
Name of the animal	Growth stage	Disease	ase/ infestation		Agro-meteorological advisories		
		Care &	manage	ement	- To protect from dehydration, provision for wholesome and clear water (cool) be maintained properly atleast four times during the day.		



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



Turkey/ Duck) Sheep/ Goat	All age groups	Ranikhet Diseases		Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March-April months.  1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.  2. R <sub>2</sub> B vaccine of 8-9 weeks of age group birds (layers).  3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).  After that at every two months interval.  - Pepirazine compound- 100mg/kg orally for 3 days.	
Sheep/ Goat	excepts the young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
Pig	All age groups	Deworming		-Give Morantel citrate tablet @ 15 mg/kg of body weight.	
	excepts the young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
		Hog Cholera		-Vaccination against swine fever must be carried out.	
Cattle	All age groups excepts the	B.Q./ H.S/FMD		-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.	
	young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
		Endoparasites		- Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.	
		Fodder crops		-Maize should be sown for use as green fodderNapier/Guinea grass may be transplantedSilage can be prepared.	
		Puerperal Fever in Pre animals	gnant	-50-60 gram of mineral mixture every day.	
		Decrease in milk prod	uction	-The milk & urine samples must be sent for testing.	
	Breedable age group	Controlled breeding		-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.	
	Milch cow	Mastitis		-To prevent mastitis they should be milked completely.	
Fishery:				-	
Type of Farming	Stage	Management		etrological advisories	
Carp culture	Fries/ fingerlings/	Pond and water	-Apply A	n minimum depth of $1.5 - 2.0$ m by filling fresh and clean water. Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.	
	brooders	Feed		feed 1-2 times @ 2 % body weight per day.	
		Fish - Male ar programs		nd female brooders should be stock in separate ponds for early breeding s for Common Carp.  ting of fish may be done in area where water availability is low.	



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



#### "Gramin Krishi Mausam Seva"

## MANIPUR BULLETIN 6<sup>th</sup> May, 2016

#### 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 7<sup>th</sup> to 11<sup>th</sup> May, 2016 as below:

## Significant past weather for the preceding bi-weekly of Imphal - West $(3^{rd}$ to $5^{th}$ May, 2016)

The sky was fair to overcast. Rainfall of 1.9 mm was recorded during past three days. Maximum temperature range observed was 24.0 to 29.9  $^{\circ}\text{C},$  range of minimum temperature observed was 17.8 to 20.3  $^{\circ}$  C, mean relative humidity observed in morning and afternoon were 89.3 % and 58.0 % respectively. The average wind speed range was 3.1 to 3.7 km/hr.

## Weather forecast for next five days of Imphal East $(7^{th}$ to $11^{th}$ May, 2016)

Likely to have light rain upto Wednesday. Sky will remain fair to variable, with maximum temp. 29.0 to 33.0  $^{\circ}$  C & minimum temp. 18.0 to 20.0  $^{\circ}$  C. Relative humidity may reach upto 97 % (max RH) & 36 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North Easterly to North North-Westerly during the next five days.

Name of the crop	Sta	ige	Pest and disease	;	Agro-meteorological advisories	
Field Crops	1					
Kharif rice				-lar	nd preparation for sowing kharif rice may be started.	
Rabi Maize	Cob form	nation	Stem borer		To control the infestation of stem borer, apply few granules of Carbofuradan at maize whorl.	
Soybean/ Ground Blackgram	nut/ Land prepara	tion		- A	and preparation for sowing of soybean/ groundnut/ blackgram may be started. Apply $10 - 13$ t/ha or $2.5 - 3$ t/sangam of FYM or compost by mixing roughly in the soil $1 - 2$ weeks before sowing.	
Horticulture Crops	1					
Tomato	Harvest	ing	Mite	- Т	% mature/ripen fruits may be harvested and kept in a cooler place. To prevent small sucking insects in the lower surface of leaves, use nion 0.05% or Neem oil @2-3 ml / lit of water.	
Ginger/Turmeric	Prepara	tion for	for		the seed rhizome should be screened from pest and diseases be read in the shed for 1-2 days the eat rhizome with Captan 50 W P or Hexaconazeb @ 3gm/kg seed & keep for an acting for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm to esirable weight of rhizome-15-25 gm with 2-3buds. The wight dried twigs/paddy straw is recommended. The opening as early as possible preferably in the upland areas, ichoderma harzianum may also be used for seed treatment.	
Bhindi/cowpea	Sowing				oper drainage should be given to drain excess water wing should be done in permissible field condition.	
Water melon	Floweri fruiting				ances of cracking of fruit are high with rains after a dry spell (with the temperature). To avoid cracking cover the fruit with leaves/ dry gs.	
Allium odorosum			-Hi yiel	-Plantation of <i>Allium odorosum</i> (Maroi nakuppi)High density planting (1-0-12 nos. of rhizome) per hill is recommended for his yield at a spacing of 6" X 6"Coriander seed may also be sown in between the Allium Species as an intercret		
Fruit plants (Bana Lime, Lemon, Orange, Kiwi, etc	planting	ment of g materia	ıl	-Jur plar plar	ngle cutting and preparation of pit for planting/transplanting of these fruit nts should be started. Pit preparation should be done atleast 1 month ahead of nting.  ocure quality planting material	
Animal Sciences Name of the animal	Growth stage	Disease	e/ infestation		Agro-meteorological advisories	
	All age groups	Care & management			- To protect from dehydration, provision for wholesome and clear water (cool) be maintained properly atleast four times during the day.	



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



Turkey/ Duck) Sheep/ Goat	All age groups	Ranikhet Diseases		Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March-April months.  1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.  2. R <sub>2</sub> B vaccine of 8-9 weeks of age group birds (layers).  3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).  After that at every two months interval.  - Pepirazine compound- 100mg/kg orally for 3 days.	
Sheep/ Goat	excepts the young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
Pig	All age groups	Deworming		-Give Morantel citrate tablet @ 15 mg/kg of body weight.	
	excepts the young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
		Hog Cholera		-Vaccination against swine fever must be carried out.	
Cattle	All age groups excepts the	B.Q./ H.S/FMD		-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.	
	young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
		Endoparasites		- Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.	
		Fodder crops		-Maize should be sown for use as green fodderNapier/Guinea grass may be transplantedSilage can be prepared.	
		Puerperal Fever in Pre animals	gnant	-50-60 gram of mineral mixture every day.	
		Decrease in milk prod	uction	-The milk & urine samples must be sent for testing.	
	Breedable age group	Controlled breeding		-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.	
	Milch cow	Mastitis		-To prevent mastitis they should be milked completely.	
Fishery:				-	
Type of Farming	Stage	Management		etrological advisories	
Carp culture	Fries/ fingerlings/	Pond and water	-Apply A	n minimum depth of $1.5 - 2.0$ m by filling fresh and clean water. Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.	
	brooders	Feed		feed 1-2 times @ 2 % body weight per day.	
		Fish - Male ar programs		nd female brooders should be stock in separate ponds for early breeding s for Common Carp.  ting of fish may be done in area where water availability is low.	



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



#### "Gramin Krishi Mausam Seva"

#### MANIPUR BULLETIN 6<sup>th</sup> May, 2016

#### 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 7<sup>th</sup> to 11<sup>th</sup> May, 2016 as below:

## Significant past weather for the preceding bi-weekly of Imphal - West $(3^{rd}$ to $5^{th}$ May, 2016)

The sky was fair to overcast. Rainfall of 1.9 mm was recorded during past three days. Maximum temperature range observed was 24.0 to 29.9  $^{\circ}\text{C},$  range of minimum temperature observed was 17.8 to 20.3  $^{\circ}$  C, mean relative humidity observed in morning and afternoon were 89.3 % and 58.0 % respectively. The average wind speed range was 3.1 to 3.7 km/hr.

## Weather forecast for next five days of Imphal West $(7^{th}$ to $11^{th}$ May, 2016)

Likely to have light rain upto Wednesday. Sky will remain fair to variable, with maximum temp. 28.0 to 33.0  $^{\circ}$  C & minimum temp. 18.0 to 20.0  $^{\circ}$  C. Relative humidity may reach upto 95 % (max RH) & 30 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North Easterly to North Westerly during the next five days.

Name of the cro	p S	Stage	Pest and disease			Agro-meteorological advisories	
Field Crops	•						
Kharif rice					-land	d preparation for sowing kharif rice may be started.	
Rabi Maize	Cob fo	ormation	Stem	borer		o control the infestation of stem borer, apply few granules of Carbofuradan at maize whorl.	
Soybean/ Ground Blackgram		ration			- A <sub>l</sub>	nd preparation for sowing of soybean/ groundnut/ blackgram may be started. pply $10 - 13$ t/ha or $2.5 - 3$ t/sangam of FYM or compost by mixing oughly in the soil $1 - 2$ weeks before sowing.	
Horticulture Crops			-				
Tomato	Harve	esting			-509	% mature/ripen fruits may be harvested and kept in a cooler place.	
		C		Mite	- To	o prevent small sucking insects in the lower surface of leaves, use ion 0.05% or Neem oil @2-3 ml / lit of water.	
Ginger/Turmeric		Preparation for sowing			-Spr -Tre ½ ho -Spa - De -Mu -Cor	e seed rhizome should be screened from pest and diseases read in the shed for 1-2 days at rhizome with Captan 50 W P or Hexaconazeb @ 3gm/kg seed & keep for our and sowing may be done.  acing for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm estrable weight of rhizome-15-25 gm with 2-3buds.  alching with dried twigs/paddy straw is recommended.  Implete sowing as early as possible preferably in the upland areas.  choderma harzianum may also be used for seed treatment.	
Bhindi/cowpea	Sowi	ng				per drainage should be given to drain excess water wing should be done in permissible field condition.	
Water melon	Flowe fruitin	ering to			Chances of cracking of fruit are high with rains after a dry spell (with high temperature). To avoid cracking cover the fruit with leaves/ dry twigs.		
Allium odorosum			-Plantation of <i>Allium odorosum</i> (Maroi nakuppi)High density planting (1-0-12 nos. of rhizome) per hill is recommended for high yield at a spacing of 6" X 6"Coriander seed may also be sown in between the Allium Species as an intercrop				
Fruit plants (Ban	ana, Procu	rement of			-Jungle cutting and preparation of pit for planting/transplanting of these fruit		
Lime, Lemon, Orange, Kiwi, etc.) planting material			plants should be started. Pit preparation should be done atleast 1 month ahead of planting.  -Procure quality planting material				
Animal Sciences					-110	cure quanty planting material	
	Growth stage	Diseas	e/ infestation			Agro-meteorological advisories	
	All age groups			- To protect from dehydration, provision for wholesome and clear water (cool) be maintained properly atleast four times during the day.			



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



Turkey/ Duck) Sheep/ Goat	All age groups	Ranikhet Diseases		Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March-April months.  1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.  2. R <sub>2</sub> B vaccine of 8-9 weeks of age group birds (layers).  3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).  After that at every two months interval.  - Pepirazine compound- 100mg/kg orally for 3 days.	
Sheep/ Goat	excepts the young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
Pig	All age groups	Deworming		-Give Morantel citrate tablet @ 15 mg/kg of body weight.	
	excepts the young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
		Hog Cholera		-Vaccination against swine fever must be carried out.	
Cattle	All age groups excepts the	B.Q./ H.S/FMD		-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.	
	young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
		Endoparasites		- Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.	
		Fodder crops		-Maize should be sown for use as green fodderNapier/Guinea grass may be transplantedSilage can be prepared.	
		Puerperal Fever in Pre animals	gnant	-50-60 gram of mineral mixture every day.	
		Decrease in milk prod	uction	-The milk & urine samples must be sent for testing.	
	Breedable age group	Controlled breeding		-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.	
	Milch cow	Mastitis		-To prevent mastitis they should be milked completely.	
Fishery:				-	
Type of Farming	Stage	Management		etrological advisories	
Carp culture	Fries/ fingerlings/	Pond and water	-Apply A	n minimum depth of $1.5 - 2.0$ m by filling fresh and clean water. Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.	
	brooders	Feed		feed 1-2 times @ 2 % body weight per day.	
		Fish - Male ar programs		nd female brooders should be stock in separate ponds for early breeding s for Common Carp.  ting of fish may be done in area where water availability is low.	



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



#### "Gramin Krishi Mausam Seva"

#### MANIPUR BULLETIN 6<sup>th</sup> May, 2016

#### 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 7<sup>th</sup> to 11<sup>th</sup> May, 2016 as below:

## Significant past weather for the preceding bi-weekly of Imphal - West $(3^{rd} \text{ to } 5^{th} \text{ May, } 2016)$

The sky was fair to overcast. Rainfall of 1.9 mm was recorded during past three days. Maximum temperature range observed was 24.0 to 29.9  $^{\circ}\text{C},$  range of minimum temperature observed was 17.8 to 20.3  $^{\circ}$  C, mean relative humidity observed in morning and afternoon were 89.3 % and 58.0 % respectively. The average wind speed range was 3.1 to 3.7 km/hr.

## Weather forecast for next five days of Senapati (7<sup>th</sup> to 11<sup>th</sup> May, 2016)

Likely to be sunny upto Wednesday. Sky will remain fair, with maximum temp. 33.0 to 34.0  $^{\rm o}$  C & minimum temp. 20.0 to 22.0  $^{\rm o}$  C. Relative humidity may reach upto 93 % (max RH) & 31 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North-east Easterly to North Westerly during the next five days.

						•	
Name of the cro	p	Stage	Pest and disease			Agro-meteorological advisories	
Field Crops							
Kharif rice					-lan	d preparation for sowing kharif rice may be started.	
Rabi Maize	Cob f	ormation	Sten	n borer	3G	o control the infestation of stem borer, apply few granules of Carbofuradan at maize whorl.	
Soybean/ Ground Blackgram		ration			- A	and preparation for sowing of soybean/groundnut/blackgram may be started. pply $10 - 13$ t/ha or $2.5 - 3$ t/sangam of FYM or compost by mixing roughly in the soil $1 - 2$ weeks before sowing.	
Horticulture Crops							
Tomato	Harv	esting			-50	% mature/ripen fruits may be harvested and kept in a cooler place.	
				Mite	- T Eth	o prevent small sucking insects in the lower surface of leaves, use ion 0.05% or Neem oil @2-3 ml / lit of water.	
Ginger/Turmeric		reparation for owing		-Spi -Tre ½ h -Spa - De -Mu -Co -Tri	e seed rhizome should be screened from pest and diseases read in the shed for 1-2 days eat rhizome with Captan 50 W P or Hexaconazeb @ 3gm/kg seed & keep for our and sowing may be done.  acing for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm esirable weight of rhizome-15-25 gm with 2-3buds.  alching with dried twigs/paddy straw is recommended.  mplete sowing as early as possible preferably in the upland areas. choderma harzianum may also be used for seed treatment.		
Bhindi/cowpea	Sowi	ng				oper drainage should be given to drain excess water wing should be done in permissible field condition.	
Water melon	Flow fruiti	ering to ng			Chances of cracking of fruit are high with rains after a dry spell (with high temperature). To avoid cracking cover the fruit with leaves/ dry twigs.		
Allium odorosum					-Pla -Hig yiel	intation of <i>Allium odorosum</i> (Maroi nakuppi).  Igh density planting (1-0-12 nos. of rhizome) per hill is recommended for high d at a spacing of 6" X 6".  Iriander seed may also be sown in between the Allium Species as an intercrop.	
Fruit plants (Banana, Lime, Lemon, Orange, Kiwi, etc.)  Procurement of planting material		-Jur plar plar	ngle cutting and preparation of pit for planting/transplanting of these fruit atts should be started. Pit preparation should be done at least 1 month ahead of atting.  Decure quality planting material				
Animal Sciences	•						
Name of the (	Growth stage	Diseas	e/ infe	station		Agro-meteorological advisories	
Poultry   All age groups   Care & management   (Chicken/		gement		- To protect from dehydration, provision for wholesome and clear water (cool) be maintained properly atleast four times during the day.			



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



Turkey/ Duck) Sheep/ Goat	All age groups	Ranikhet Diseases		Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March-April months.  1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.  2. R <sub>2</sub> B vaccine of 8-9 weeks of age group birds (layers).  3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).  After that at every two months interval.  - Pepirazine compound- 100mg/kg orally for 3 days.	
Sheep/ Goat	excepts the young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
Pig	All age groups	Deworming		-Give Morantel citrate tablet @ 15 mg/kg of body weight.	
	excepts the young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
		Hog Cholera		-Vaccination against swine fever must be carried out.	
Cattle	All age groups excepts the	B.Q./ H.S/FMD		-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.	
	young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.	
		Endoparasites		- Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.	
		Fodder crops		-Maize should be sown for use as green fodderNapier/Guinea grass may be transplantedSilage can be prepared.	
		Puerperal Fever in Pre animals	gnant	-50-60 gram of mineral mixture every day.	
		Decrease in milk prod	uction	-The milk & urine samples must be sent for testing.	
	Breedable age group	Controlled breeding		-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.	
	Milch cow	Mastitis		-To prevent mastitis they should be milked completely.	
Fishery:				-	
Type of Farming	Stage	Management		etrological advisories	
Carp culture	Fries/ fingerlings/	Pond and water	-Apply A	n minimum depth of $1.5 - 2.0$ m by filling fresh and clean water. Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.	
	brooders	Feed		feed 1-2 times @ 2 % body weight per day.	
		Fish - Male ar programs		nd female brooders should be stock in separate ponds for early breeding s for Common Carp.  ting of fish may be done in area where water availability is low.	



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



#### "Gramin Krishi Mausam Seva"

## MANIPUR BULLETIN 6<sup>th</sup> May, 2016

### **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 7<sup>th</sup> to 11<sup>th</sup> May, 2016 as below:

## Significant past weather for the preceding bi-weekly of Imphal - West $(3^{rd}$ to $5^{th}$ May, 2016)

The sky was fair to overcast. Rainfall of 1.9 mm was recorded during past three days. Maximum temperature range observed was 24.0 to 29.9  $^{\circ}\text{C},$  range of minimum temperature observed was 17.8 to 20.3  $^{\circ}$  C, mean relative humidity observed in morning and afternoon were 89.3 % and 58.0 % respectively. The average wind speed range was 3.1 to 3.7 km/hr.

## Weather forecast for next five days of Tamenglong $(7^{th}$ to $11^{th}$ May, 2016)

Likely to have light rain upto Wednesday. Sky will remain variable, with maximum temp. 29.0 to 32.0  $^{\circ}$  C & minimum temp. 18.0 to 19.0  $^{\circ}$  C. Relative humidity may reach upto 92 % (max RH) & 31 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North-east Easterly to Westerly during the next five days.

						•	
Name of the cro	р	Stage	Pe	st and disease		Agro-meteorological advisories	
Field Crops							
Kharif rice					-lan	nd preparation for sowing kharif rice may be started.	
Rabi Maize	Cob	formation	Sten	n borer	3G	o control the infestation of stem borer, apply few granules of Carbofuradan at maize whorl.	
Soybean/ Ground Blackgram			- A	and preparation for sowing of soybean/groundnut/blackgram may be started. apply $10 - 13$ t/ha or $2.5 - 3$ t/sangam of FYM or compost by mixing roughly in the soil $1 - 2$ weeks before sowing.			
Horticulture Crops							
Tomato	Hai	rvesting			-50	% mature/ripen fruits may be harvested and kept in a cooler place.	
		11111 100111119		Mite	- T Eth	To prevent small sucking insects in the lower surface of leaves, use iion 0.05% or Neem oil @2-3 ml / lit of water.	
Ginger/Turmeric		Preparation for sowing			-Spi -Tre ½ h -Spa - De -Mu -Co -Tri	e seed rhizome should be screened from pest and diseases read in the shed for 1-2 days eat rhizome with Captan 50 W P or Hexaconazeb @ 3gm/kg seed & keep for your and sowing may be done. acing for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm esirable weight of rhizome-15-25 gm with 2-3buds. alching with dried twigs/paddy straw is recommended. Somplete sowing as early as possible preferably in the upland areas. Sichoderma harzianum may also be used for seed treatment.	
Bhindi/cowpea	Sov	Sowing				oper drainage should be given to drain excess water wing should be done in permissible field condition.	
Water melon		Flowering to fruiting			Cha	ances of cracking of fruit are high with rains after a dry spell (with h temperature). To avoid cracking cover the fruit with leaves/ dry	
Allium odorosum					-Hig yiel	antation of <i>Allium odorosum</i> (Maroi nakuppi).  gh density planting (1-0-12 nos. of rhizome) per hill is recommended for high d at a spacing of 6" X 6".  briander seed may also be sown in between the Allium Species as an intercrop.	
Fruit plants (Ban Lime, Lemon, Orange, Kiwi, etc	pla	Procurement of planting material			-Jur plar plar	-Jungle cutting and preparation of pit for planting/transplanting of these fruit plants should be started. Pit preparation should be done atleast 1 month ahead plantingProcure quality planting material	
<b>Animal Sciences</b>							
Name of the animal	Growth stag	h stage Disease/ infe		estation		Agro-meteorological advisories	
	All age group	e groups Care & manag		gement		- To protect from dehydration, provision for wholesome and clear water (cool) be maintained properly atleast four times during the day.	



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



Turkey/ Duck)  Sheep/ Goat	All age groups	Ranikhet Diseases		Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months.  1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.  2. R <sub>2</sub> B vaccine of 8-9 weeks of age group birds (layers).  3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).  After that at every two months interval.  - Pepirazine compound- 100mg/kg orally for 3 days.
Sheep/ Goat	excepts the young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups	Deworming		-Give Morantel citrate tablet @ 15 mg/kg of body weight.
	excepts the young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Hog Cholera		-Vaccination against swine fever must be carried out.
Cattle	All age groups excepts the	B.Q./ H.S/FMD		-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
	young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Endoparasites		- Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Fodder crops		-Maize should be sown for use as green fodderNapier/Guinea grass may be transplantedSilage can be prepared.
		Puerperal Fever in Pre animals	gnant	-50-60 gram of mineral mixture every day.
		Decrease in milk production		-The milk & urine samples must be sent for testing.
	Breedable age group	Controlled breeding		-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis		-To prevent mastitis they should be milked completely.
Fishery:	T a.	T		
Type of Farming	Stage	Management		etrological advisories
Carp culture	Fries/ fingerlings/ brooders	-Apply A		In minimum depth of $1.5 - 2.0$ m by filling fresh and clean water. Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
				feed 1-2 times @ 2 % body weight per day.
		progra		nd female brooders should be stock in separate ponds for early breeding s for Common Carp. ting of fish may be done in area where water availability is low.



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



#### "Gramin Krishi Mausam Seva"

#### MANIPUR BULLETIN 6<sup>th</sup> May, 2016

#### **Thoubal**

(Chicken/

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 7<sup>th</sup> to 11<sup>th</sup> May, 2016 as below:

## Significant past weather for the preceding bi-weekly of Imphal - West $(3^{rd}$ to $5^{th}$ May, 2016)

The sky was fair to overcast. Rainfall of 1.9 mm was recorded during past three days. Maximum temperature range observed was 24.0 to 29.9  $^{\circ}\text{C},$  range of minimum temperature observed was 17.8 to 20.3  $^{\circ}$  C, mean relative humidity observed in morning and afternoon were 89.3 % and 58.0 % respectively. The average wind speed range was 3.1 to 3.7 km/hr.

## Weather forecast for next five days of Thoubal $(7^{th} \text{ to } 11^{th} \text{ May, } 2016)$

Likely to have light rain upto Wednesday. Sky will remain variable to mainly cloudy, with maximum temp. 29.0 to 30.0  $^{\circ}$  C & minimum temp. 18.0 to 19.0  $^{\circ}$  C. Relative humidity may reach upto 89 % (max RH) & 29 % (min RH). The average wind speed may be 4-6 km/hr. Wind direction may be South Easterly to North Westerly during the next five days.

(cool) be maintained properly atleast four times during the day.

Name of the cr	crop Stage Pest and disease			Agro-meteorological advisories		
Field Crops					•	
Kharif rice				-lan	d preparation for sowing kharif rice may be started.	
Rabi Maize		Cob form	nation	Stem borer		o control the infestation of stem borer, apply few granules of Carbofuradan at maize whorl.
Soybean/ Groundnut/ Land preparation			- A	and preparation for sowing of soybean/ groundnut/ blackgram may be started. pply $10 - 13$ t/ha or $2.5 - 3$ t/sangam of FYM or compost by mixing roughly in the soil $1 - 2$ weeks before sowing.		
Horticulture Crops	5			•		
Tomato		Harvesti	ing		-50	% mature/ripen fruits may be harvested and kept in a cooler place.
				Mite	- T	To prevent small sucking insects in the lower surface of leaves, use ion 0.05% or Neem oil @2-3 ml / lit of water.
Ginger/Turmeric		Preparation for sowing			-Sp. -Tre ½ h -Sp - De -Mu -Co	e seed rhizome should be screened from pest and diseases read in the shed for 1-2 days eat rhizome with Captan 50 W P or Hexaconazeb @ 3gm/kg seed & keep for our and sowing may be done. acing for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm esirable weight of rhizome-15-25 gm with 2-3buds. alching with dried twigs/paddy straw is recommended. Implete sowing as early as possible preferably in the upland areas. Inchoderma harzianum may also be used for seed treatment.
Bhindi/cowpea		Sowing				oper drainage should be given to drain excess water wing should be done in permissible field condition.
Water melon		Flowering to fruiting				ances of cracking of fruit are high with rains after a dry spell (with h temperature). To avoid cracking cover the fruit with leaves/ dry gs.
Allium odorosum					-Hi yiel	intation of <i>Allium odorosum</i> (Maroi nakuppi).  gh density planting (1-0-12 nos. of rhizome) per hill is recommended for high d at a spacing of 6" X 6".  riander seed may also be sown in between the Allium Species as an intercrop
Fruit plants (Banana,		Procurement of				ngle cutting and preparation of pit for planting/transplanting of these fruit
Lime, Lemon, Orange, Kiwi, etc.)		planting material		1	plants should be started. Pit preparation should be done at least 1 month ahead of planting.	
4 1 10 1					-Pro	ocure quality planting material
Animal Sciences			ъ.			
	Growth	ı stage	Disease	e/ infestation		Agro-meteorological advisories
animal Poultry	All age	age groups Care & management			- To protect from dehydration, provision for wholesome and clear water	



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



Turkey/ Duck) Sheep/ Goat	All age groups	Ranikhet Diseases		Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March-April months.  1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.  2. R <sub>2</sub> B vaccine of 8-9 weeks of age group birds (layers).  3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).  After that at every two months interval.  - Pepirazine compound- 100mg/kg orally for 3 days.
All age groups excepts the young ones		Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups	Deworming		-Give Morantel citrate tablet @ 15 mg/kg of body weight.
excepts the young ones		Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Hog Cholera		-Vaccination against swine fever must be carried out.
Cattle	All age groups excepts the	B.Q./ H.S/FMD		-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
young ones	young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Endoparasites		- Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Fodder crops		-Maize should be sown for use as green fodderNapier/Guinea grass may be transplantedSilage can be prepared.
		Puerperal Fever in Pre animals	gnant	-50-60 gram of mineral mixture every day.
		Decrease in milk prod	uction	-The milk & urine samples must be sent for testing.
	Breedable age group	Controlled breeding  Mastitis		-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow			-To prevent mastitis they should be milked completely.
Fishery:	1		1.	
Type of Farming	Stage	Management		etrological advisories
Carp culture	Fries/ fingerlings/ brooders	-Apply A		n minimum depth of $1.5 - 2.0$ m by filling fresh and clean water. Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
				feed 1-2 times @ 2 % body weight per day.
		programs		nd female brooders should be stock in separate ponds for early breeding s for Common Carp.  ting of fish may be done in area where water availability is low.

Phone: 2414654, 2414260, 2414749; Fax: (0385) 2414654, 2414749 E-mail: agromet\_mnp@yahoo.co.uk



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



#### "Gramin Krishi Mausam Seva"

#### MANIPUR BULLETIN 6<sup>th</sup> May, 2016

#### 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 7<sup>th</sup> to 11<sup>th</sup> May, 2016 as

#### Significant past weather for the preceding bi-weekly of Imphal - West (3<sup>rd</sup> to 5<sup>th</sup> May, 2016)

The sky was fair to overcast. Rainfall of 1.9 mm was recorded during past three days. Maximum temperature range observed was 24.0 to 29.9 °C, range of minimum temperature observed was 17.8 to 20.3 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 58.0 % respectively. The average wind speed range was 3.1 to 3.7 km/hr.

#### Weather forecast for next five days of Ukhrul (7<sup>th</sup> to 11<sup>th</sup> May, 2016)

Likely to have light rain upto Wednesday. Sky will remain variable to mainly cloudy, with maximum temp. 28.0 to 30.0 ° C & minimum temp. 18.0 to 20.0 ° C. Relative humidity may reach upto 77 % (max RH) & 26 % (min RH). The average wind speed may be 3-4 km/hr. Wind direction may be South Westerly to North Westerly during the next five days.

Name of the crop		Sta	ge	Pest and disease		Agro-meteorological advisories
Field Crops	· ·		l l		•	
Kharif rice					-land prepa	ration for sowing kharif rice may be started.
Rabi Maize	(	Cob form	nation	Stem borer	3G at maiz	
Soybean/ Groundnut/ Land preparation			- Apply 1	paration for sowing of soybean/groundnut/blackgram may be started. $0-13$ t/ha or $2.5-3$ t/sangam of FYM or compost by mixing in the soil $1-2$ weeks before sowing.		
Horticulture Crops						
Tomato	I	Harvesti	ng		-50% mat	ure/ripen fruits may be harvested and kept in a cooler place.
				Mite		ent small sucking insects in the lower surface of leaves, use 15% or Neem oil @2-3 ml / lit of water.
Ginger/Turmeric		Preparation for sowing			-Spread in -Treat rhize ½ hour and -Spacing fo - Desirable -Mulching -Complete	hizome should be screened from pest and diseases the shed for 1-2 days ome with Captan 50 W P or Hexaconazeb @ 3gm/kg seed & keep for sowing may be done. or Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm weight of rhizome-15-25 gm with 2-3buds. with dried twigs/paddy straw is recommended. sowing as early as possible preferably in the upland areas. ma harzianum may also be used for seed treatment.
Bhindi/cowpea		Sowing				inage should be given to drain excess water ould be done in permissible field condition.
Water melon		Flowering to fruiting				of cracking of fruit are high with rains after a dry spell (with perature). To avoid cracking cover the fruit with leaves/ dry
Allium odorosum					-High dens yield at a s	of <i>Allium odorosum</i> (Maroi nakuppi). ity planting (1-0-12 nos. of rhizome) per hill is recommended for high pacing of 6" X 6". seed may also be sown in between the Allium Species as an intercrop.
Fruit plants (Banana,		Procurement of				ting and preparation of pit for planting/transplanting of these fruit
Lime, Lemon,		planting material		1		ld be started. Pit preparation should be done atleast 1 month ahead of
Orange, Kiwi, etc.)					plantingProcure or	uality planting material
Animal Sciences				I	11000104	
Name of the animal Growth		h stage Disease/ infestation		/ infestation		Agro-meteorological advisories
	altry All age groups		Care & management			rotect from dehydration, provision for wholesome and clear water

Animal Sciences								
Name of the	Growth stage Disease/ infestation		Agro-meteorological advisories					
animal								
Poultry (Chicken/	All age groups	Care & management	- To protect from dehydration, provision for wholesome and clear water (cool) be maintained properly atleast four times during the day.					



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



Turkey/ Duck) Sheep/ Goat	All age groups	Ranikhet Diseases		Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March-April months.  1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.  2. R <sub>2</sub> B vaccine of 8-9 weeks of age group birds (layers).  3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).  After that at every two months interval.  - Pepirazine compound- 100mg/kg orally for 3 days.
All age groups excepts the young ones		Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
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excepts the young ones		Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Hog Cholera		-Vaccination against swine fever must be carried out.
Cattle	All age groups excepts the	B.Q./ H.S/FMD		-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
young ones	young ones	Ectoparasitism		- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Endoparasites		- Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Fodder crops		-Maize should be sown for use as green fodderNapier/Guinea grass may be transplantedSilage can be prepared.
		Puerperal Fever in Pre animals	gnant	-50-60 gram of mineral mixture every day.
		Decrease in milk prod	uction	-The milk & urine samples must be sent for testing.
	Breedable age group	Controlled breeding  Mastitis		-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow			-To prevent mastitis they should be milked completely.
Fishery:	1		1.	
Type of Farming	Stage	Management		etrological advisories
Carp culture	Fries/ fingerlings/ brooders	-Apply A		n minimum depth of $1.5 - 2.0$ m by filling fresh and clean water. Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
				feed 1-2 times @ 2 % body weight per day.
		programs		nd female brooders should be stock in separate ponds for early breeding s for Common Carp.  ting of fish may be done in area where water availability is low.