

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



#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 19<sup>th</sup> August, 2014

#### 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 20<sup>th</sup> to 24<sup>th</sup> August, 2014 as given below:

Significant past	weather for the preceding bi-weekly of
Imphal - West (	15 <sup>th</sup> to 18 <sup>th</sup> August, 2014)

During past four days sky was partly cloudy to mainly cloudy. 67.7 **mm** rainfall was recorded during past four days. Maximum temperature range observed was 30.9-32.4 °C, range of minimum temperature observed was 19.9-22.0 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 83.8 % respectively. The average wind speed range was 0.5-3.0 km/hr.

# Weather forecast for next five days of Imphal-East (20<sup>th</sup> to 24<sup>th</sup> August, 2014)

There may be light rains upto Saturday. Sky may be partly cloudy to cloudy with maximum temp. of  $31.0-32.0\,^{\circ}\text{C}$  & minimum temp.  $22.0-23.0\,^{\circ}\text{C}$ . Relative humidity may reach a maximum of 99 % (maximum RH) & 90 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		l.	
Rice	Tillering of		- Ridges may be well constructed to maintain optimum water level of 5 8cm.
	Main Kharif	Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/15 litre of water (at least three pumps per sangam) after rains.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water after rains.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have rains during next five days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Cabbage/ Cauliflower/ Broccoli	Nursery raising		<ul> <li>Farmers having polyhouses may raise nurseries of cole crops.</li> <li>Prophylactic and curative measures such as soil fumigation/ soil sterilization against damping off should be strictly followed with either Captan or Sixer.</li> <li>Provide moveable/ temporary sheds to protect from rain.</li> </ul>
Potato	Land preparation		<ul> <li>Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area.</li> <li>Select the area with fertile and sandy loam soil rather than with stone and gravel.</li> </ul>
Ginger Rhizome initiation  Turmeric Rhizome initiation		Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
		Taphrine leaf blotch and other leaf spot	<ul> <li>Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.</li> <li>Drain out excess water from the field.</li> </ul>
Animal Sciences	•		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.
·	groups (as and when required)	Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.



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				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goa	ıt	Above 3 months of age (as and when		Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc subcutaeneously.	
	required)		Ectoparasites	Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of water) twice a week.		
Pig		age (a	e 3 months of as and when	Coccidial infection (Diarrhea)	Ofloxacine tab twice daily for 5 days.	
		requir	red)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
					Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buff Mithun	alo/	age (a	e 3 months of as and when	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)	
		required)		Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.	
Fishery:	1		T			
Type of Farming	Stage		Management	Agro-metrological advisor	ies	
Carp culture	Breed	_	Pond and water	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.		
			Fish		of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, seed production. For Pengba & Khabak b. wt. May be less than 300g.	
			Hormone dose	- Ovitide/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.		
	nurseries			- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p <sup>H</sup> of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.		
			Pond and water	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p <sup>H</sup> of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.		
			Fish	- 8000-10,000 fingerli	ngs/ha can be stocked. Sampling of fish should be done by regular netting.	
			Feed		ortified with vitamins and minerals should be provided @ 3-5% body can be fed at 2-3 times a day.	
Paddy cum	cum Water management - M			- Maintained 1.0 m wa	tter depth of the trenches in paddy field. Provide rice bran and mustard oil	
fish culture			cake (1:1) as supplement	entary feed. Avoid insecticide/pesticide application.		



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#### MANIPUR BULLETIN 19<sup>th</sup> August, 2014

#### 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 20<sup>th</sup> to 24<sup>th</sup> August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 18<sup>th</sup> August, 2014)

During past four days sky was partly cloudy to mainly cloudy. 67.7 mm rainfall was recorded during past four days. Maximum temperature range observed was 30.9 - 32.4  $^{\circ}\text{C},$  range of minimum temperature observed was 19.9 - 22.0  $^{\circ}\text{C},$  mean relative humidity observed in morning and afternoon were 89.3 % and 83.8 % respectively. The average wind speed range was 0.5 - 3.0 km/hr.

Weather forecast for next five days of Imphal-West (20<sup>th</sup> to 24<sup>th</sup> August, 2014)

There may be light rains upto Saturday. Sky may be partly cloudy to cloudy with maximum temp. of  $30.0-32.0\,^{\circ}\text{C}$  & minimum temp.  $21.0-23.0\,^{\circ}\text{C}$ . Relative humidity may reach a maximum of  $100\,\%$  (maximum RH) &  $90\,\%$  (minimum RH). The average wind speed may be 3-4 km/hr during next five days.

Name of the crop	Name of the crop Stage		Agro-meteorological advisories
Field Crops	<u>.</u>	1	
Rice	Tillering of		- Ridges may be well constructed to maintain optimum water level of 5-8cm.
	Main Kharif	Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam) after rains.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water after rains.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have rains during next five days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	S		
Cabbage/ Cauliflower/ Broccoli	Nursery raising		- Farmers having polyhouses may raise nurseries of cole crops Prophylactic and curative measures such as soil fumigation/ soil sterilization against damping off should be strictly followed with either Captan or Sixer.
Potato	Land preparation		<ul> <li>Provide moveable/ temporary sheds to protect from rain.</li> <li>Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area.</li> <li>Select the area with fertile and sandy loam soil rather than with stone and gravel.</li> </ul>
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	<ul> <li>Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.</li> <li>Drain out excess water from the field.</li> </ul>
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.
	groups (as and when required)	Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.



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			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goa	age	ove 3 months of (as and when	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc subcutaeneously.	
	required)		Ectoparasites	Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of water) twice a week.	
Pig	age	ove 3 months of (as and when	Coccidial infection Ofloxacine tab twice daily for 5 days. (Diarrhea)		
	requ	uired)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buff Mithun	age	ove 3 months of (as and when	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)	
	requ	uired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
			Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp culture	Breeding	Pond and water	depth should be maint		
		Fish		of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, seed production. For Pengba & Khabak b. wt. May be less than 300g.	
		Hormone dose	- Ovitide/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.		
	nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p <sup>H</sup> of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.		
	Grow - out	Pond and water	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p <sup>H</sup> of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.		
		Fish Feed		ngs/ha can be stocked. Sampling of fish should be done by regular netting.	
				ortified with vitamins and minerals should be provided @ 3-5% body can be fed at 2-3 times a day.	
Paddy cum				tter depth of the trenches in paddy field. Provide rice bran and mustard oil	



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#### MANIPUR BULLETIN 19<sup>th</sup> August, 2014

#### 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 20<sup>th</sup> to 24<sup>th</sup> August, 2014 as given below:

Significant past	weather for the preceding bi-weekly of
Imphal - West (	15 <sup>th</sup> to 18 <sup>th</sup> August, 2014)

During past four days sky was partly cloudy to mainly cloudy. 67.7 **mm** rainfall was recorded during past four days. Maximum temperature range observed was 30.9-32.4 °C, range of minimum temperature observed was 19.9-22.0 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 83.8 % respectively. The average wind speed range was 0.5-3.0 km/hr.

# Weather forecast for next five days of Senapati (20<sup>th</sup> to 24<sup>th</sup> August, 2014)

There may be light rains upto Saturday. Sky may be partly cloudy to cloudy with maximum temp. of  $29.0-31.0\,^{\circ}\text{C}$  & minimum temp.  $19.0-21.0\,^{\circ}\text{C}$ . Relative humidity may reach a maximum of 98 % (maximum RH) & 88 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of		- Ridges may be well constructed to maintain optimum water level of 5-8cm.
	Main Kharif	Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/15 litre of water (at least three pumps per sangam) after rains.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water after rains.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have rains during next five days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	S		
Cabbage/ Cauliflower/ Broccoli	Nursery raising		<ul> <li>Farmers having polyhouses may raise nurseries of cole crops.</li> <li>Prophylactic and curative measures such as soil fumigation/ soil sterilization against damping off should be strictly followed with either Captan or Sixer.</li> </ul>
			- Provide moveable/ temporary sheds to protect from rain.
Potato	Land preparation		<ul> <li>- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area.</li> <li>- Select the area with fertile and sandy loam soil rather than with stone and gravel.</li> </ul>
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	<ul> <li>Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.</li> <li>Drain out excess water from the field.</li> </ul>
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.
•	groups (as and when required)	Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.



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# "Integrated Agromet Advisory Services"

				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goa	ıt	age (	ve 3 months of (as and when	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc subcutaeneously.
	required)		Ectoparasites	Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of water) twice a week.	
Pig			ve 3 months of	Coccidial infection	Ofloxacine tab twice daily for 5 days.
		_	(as and when	(Diarrhea)	
		requ	ired)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
					Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buff Mithun	alo/	age (	ve 3 months of (as and when	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
		required)		Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.
Fishery:					
Type of Farming	Stage		Management	Agro-metrological adviso	ries
Carp culture	Breed	ling	Pond and water	- Clean and clear water depth should be main	er having 7.0-7.8 pH free from unwanted vegetation and insects. Water tained at 1.0-1.5m.
			Fish		of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, or seed production. For Pengba & Khabak b. wt. May be less than 300g.
		Hormone dose		- Ovitide/ Wova-FH/	Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.
Grow - Pond and out water			maintained at 1.0-1.5	e from unwanted vegetation and insects and water depth should be m. p <sup>H</sup> of pond water should be maintained at 7.0-7.5. Feeds should be day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.	
		· -		- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p <sup>H</sup> of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.	
			Fish		ings/ha can be stocked. Sampling of fish should be done by regular netting.
			Feed	- Well balanced feed	fortified with vitamins and minerals should be provided @ 3-5% body
B 11	***				can be fed at 2-3 times a day.
Paddy cum			agement		ater depth of the trenches in paddy field. Provide rice bran and mustard oil
fish culture				cake (1:1) as supplem	entary feed. Avoid insecticide/pesticide application.



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#### MANIPUR BULLETIN 19<sup>th</sup> August, 2014

#### **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 20<sup>th</sup> to 24<sup>th</sup> August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 18<sup>th</sup> August, 2014)

During past four days sky was partly cloudy to mainly cloudy. 67.7 **mm** rainfall was recorded during past four days. Maximum temperature range observed was 30.9-32.4 °C, range of minimum temperature observed was 19.9-22.0 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 83.8 % respectively. The average wind speed range was 0.5-3.0 km/hr.

Weather forecast for next five days of Tamenglong (20<sup>th</sup> to 24<sup>th</sup> August, 2014)

There may be light rains upto Saturday. Sky may be partly cloudy to cloudy with maximum temp. of  $31.0-33.0\,^{\circ}\text{C}$  & minimum temp.  $22.0-24.0\,^{\circ}\text{C}$ . Relative humidity may reach a maximum of 99 % (maximum RH) & 91 % (minimum RH). The average wind speed may be 3-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories	
Field Crops	<del>- 1</del>	I.	,	
Rice	Tillering of		- Ridges may be well constructed to maintain optimum water level of 5-8cm.	
	Main Kharif	Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam) after rains.	
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water after rains.	
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have rains during next five days.	
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.	
Horticulture Crops	5			
Cabbage/ Cauliflower/	Nursery raising		<ul><li>Farmers having polyhouses may raise nurseries of cole crops.</li><li>Prophylactic and curative measures such as soil fumigation/ soil</li></ul>	
Broccoli			sterilization against damping off should be strictly followed with either Captan or Sixer.  - Provide moveable/ temporary sheds to protect from rain.	
Potato	Land preparation		<ul> <li>- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area.</li> <li>- Select the area with fertile and sandy loam soil rather than with stone and gravel.</li> </ul>	
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.	
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	<ul> <li>Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.</li> <li>Drain out excess water from the field.</li> </ul>	
Animal Sciences				
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry	All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
	groups (as and when required)	Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.	
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.	



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				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goa	t	age (	ve 3 months of (as and when	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc subcutaeneously.	
	required)		Ectoparasites	Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of water) twice a week.		
Pig			ve 3 months of (as and when	Coccidial infection (Diarrhea)	Ofloxacine tab twice daily for 5 days.	
		requ	ired)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
					Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buff Mithun	alo/	age (	ve 3 months of (as and when	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)	
r		required)		Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.	
Fishery:						
Type of Farming	Stage		Management	Agro-metrological advisor	ies	
Carp culture	Breedi	ing	Pond and water	depth should be mainta		
			Fish		of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, seed production. For Pengba & Khabak b. wt. May be less than 300g.	
			Hormone dose	- Ovitide/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.		
	nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p <sup>H</sup> of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.			
	Grow - Pond out water		Pond and water	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p <sup>H</sup> of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.		
	Fish Feed		Fish	- 8000-10,000 fingerlin	ngs/ha can be stocked. Sampling of fish should be done by regular netting.	
			Feed	- Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day. Feed can be fed at 2-3 times a day.		
Paddy cum	Water	man	agement	- Maintained 1.0 m wa	tter depth of the trenches in paddy field. Provide rice bran and mustard oil	
fish culture				cake (1:1) as suppleme	entary feed. Avoid insecticide/pesticide application.	



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



#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 19<sup>th</sup> August, 2014

#### **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 20<sup>th</sup> to 24<sup>th</sup> August, 2014 as given below:

Significant past v	eather for the	preceding bi-weekly of
Imphal - West (1:	5 <sup>th</sup> to 18 <sup>th</sup> Augu	ust, 2014)

During past four days sky was partly cloudy to mainly cloudy. 67.7 **mm** rainfall was recorded during past four days. Maximum temperature range observed was 30.9-32.4 °C, range of minimum temperature observed was 19.9-22.0 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 83.8 % respectively. The average wind speed range was 0.5-3.0 km/hr.

# Weather forecast for next five days of Thoubal (20<sup>th</sup> to 24<sup>th</sup> August, 2014)

There may be light rains upto Saturday. Sky may be partly cloudy to cloudy with maximum temp. of  $29.0-31.0\,^{\circ}\text{C}$  & minimum temp.  $21.0-23.0\,^{\circ}\text{C}$ . Relative humidity may reach a maximum of 99 % (maximum RH) & 94 % (minimum RH). The average wind speed may be 2-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	J.		
Rice	Tillering of		- Ridges may be well constructed to maintain optimum water level of 5-8cm.
	Main Kharif	Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam) after rains.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water after rains.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have rains during next five days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	5		
Cabbage/ Cauliflower/ Broccoli	Nursery raising		<ul> <li>Farmers having polyhouses may raise nurseries of cole crops.</li> <li>Prophylactic and curative measures such as soil fumigation/ soil sterilization against damping off should be strictly followed with either Captan or Sixer.</li> </ul>
			- Provide moveable/ temporary sheds to protect from rain.
Potato	Land preparation		<ul> <li>- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area.</li> <li>- Select the area with fertile and sandy loam soil rather than with stone and gravel.</li> </ul>
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	<ul> <li>Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.</li> <li>Drain out excess water from the field.</li> </ul>
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.
-	groups (as and when required)	Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.



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



# "Integrated Agromet Advisory Services"

				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goa	it	Above 3 months of age (as and when		Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc subcutaeneously.	
		required)		Ectoparasites	Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of water) twice a week.	
Pig		Above 3 months of		Coccidial infection	Ofloxacine tab twice daily for 5 days.	
		age (as and when		(Diarrhea)		
		requ	ired)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
					Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Bufl Mithun	alo/	Above 3 months of age (as and when required)		Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)	
				Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.	
Fishery:						
Type of Farming	Stage		Management	Agro-metrological adviso	ries	
Carp culture	Breed	ing	Pond and water	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.		
			Fish		of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, or seed production. For Pengba & Khabak b. wt. May be less than 300g.	
		Hormo dose		- Ovitide/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.		
	nurser	nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p <sup>H</sup> of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.		
	Grow	_	Pond and water	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p <sup>H</sup> of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.		
		j	Fish		ings/ha can be stocked. Sampling of fish should be done by regular netting.	
			Feed		fortified with vitamins and minerals should be provided @ 3-5% body	
				weight per day. Feed	can be fed at 2-3 times a day.	
Paddy cum			agement	- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil		
fish culture	ılture		cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.			



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



#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 19<sup>th</sup> August, 2014

#### **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 20<sup>th</sup> to 24<sup>th</sup> August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 18<sup>th</sup> August, 2014)

During past four days sky was partly cloudy to mainly cloudy. 67.7 **mm** rainfall was recorded during past four days. Maximum temperature range observed was 30.9-32.4 °C, range of minimum temperature observed was 19.9-22.0 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 83.8 % respectively. The average wind speed range was 0.5-3.0 km/hr.

Weather forecast for next five days of Ukhrul (20<sup>th</sup> to 24<sup>th</sup> August, 2014)

There may be light rains upto Saturday. Sky may be partly cloudy to cloudy with maximum temp. of  $29.0-31.0\,^{\circ}\text{C}$  & minimum temp.  $19.0-20.0\,^{\circ}\text{C}$ . Relative humidity may reach a maximum of 99 % (maximum RH) & 92 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	·		
Rice	Tillering of		- Ridges may be well constructed to maintain optimum water level of 5-8cm.
	Main Kharif	Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam) after rains.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water after rains.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have rains during next five days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	5	1	
Cabbage/	Nursery raising		- Farmers having polyhouses may raise nurseries of cole crops.
Cauliflower/			- Prophylactic and curative measures such as soil fumigation/ soil
Broccoli			sterilization against damping off should be strictly followed with either Captan or Sixer.
D-4-4-	T 1		- Provide moveable/ temporary sheds to protect from rain.
Potato	Land preparation		<ul> <li>- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area.</li> <li>- Select the area with fertile and sandy loam soil rather than with stone and gravel.</li> </ul>
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	<ul> <li>Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.</li> <li>Drain out excess water from the field.</li> </ul>
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.
	groups (as and when required)	Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.



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



# "Integrated Agromet Advisory Services"

				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goa	nt	Above 3 months of		Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-	
Sheep, Godt		age (as and when required)		ZinciotoAuciniu	cutaeneously.	
				Ectoparasites	Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of	
				1	water) twice a week.	
Pig		Above 3 months of		Coccidial infection	Ofloxacine tab twice daily for 5 days.	
		age (as and when		(Diarrhea)		
		requ	ired)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30	
					ml per adult animal once.	
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
					Give mineral mixture like Vimicon and Ascagold suspension in pregnant	
					sow @ 20g and 20ml resp. in feed.	
Cattle / Buff	falo/		ve 3 months of	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black	
Mithun		_	(as and when		Quarter disease during cold season (Nov. & Dec.)	
		requ	ired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution a	
					fortnight interval.	
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.	
Fishery:			,			
Type of Farming	Stage		Management	Agro-metrological adviso	ories	
Carp	Breed	ling	Pond and	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water		
culture			water	depth should be main		
			Fish		of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu,	
				Mrigal, Catla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than 300g.		
		Hormone dose		- Ovitide/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.		
	nurse	ries		- Ponds should be free from unwanted vegetation and insects and water depth should be		
				maintained at 1.0-1.5m. p <sup>H</sup> of pond water should be maintained at 7.0-7.5. Feeds should be		
	~			provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.		
	Grow	-	Pond and	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p <sup>H</sup> of		
	out		water	pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour		
			F: .1.		rater should be drain out and replace with fresh water.	
			Fish		ings/ha can be stocked. Sampling of fish should be done by regular netting.	
			Feed		fortified with vitamins and minerals should be provided @ 3-5% body	
Doddy our	Wata	r mon	agamant	weight per day. Feed can be fed at 2-3 times a day.		
Paddy cum fish culture			agement	- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil		
nsn cunure	ire			cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.		



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



#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 19<sup>th</sup> August, 2014

#### 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 20<sup>th</sup> to 24<sup>th</sup> August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 18<sup>th</sup> August, 2014)

During past four days sky was partly cloudy to mainly cloudy. 67.7 **mm** rainfall was recorded during past four days. Maximum temperature range observed was 30.9-32.4 °C, range of minimum temperature observed was 19.9-22.0 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 83.8 % respectively. The average wind speed range was 0.5-3.0 km/hr.

Weather forecast for next five days of Bishnupur (20<sup>th</sup> to 24<sup>th</sup> August, 2014)

There may be light rains upto Saturday. Sky may be partly cloudy to cloudy with maximum temp. of  $30.0-32.0\,^{\circ}\text{C}$  & minimum temp.  $22.0-23.0\,^{\circ}\text{C}$ . Relative humidity may reach a maximum of 99 % (maximum RH) & 94 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	J <u>.</u>		
Rice	Tillering of		- Ridges may be well constructed to maintain optimum water level of 5-8cm.
	Main Kharif	Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/15 litre of water (at least three pumps per sangam) after rains.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water after rains.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have rains during next five days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	5		
Cabbage/ Cauliflower/ Broccoli	Nursery raising		<ul> <li>Farmers having polyhouses may raise nurseries of cole crops.</li> <li>Prophylactic and curative measures such as soil fumigation/ soil sterilization against damping off should be strictly followed with either</li> </ul>
			Captan or Sixer Provide moveable/ temporary sheds to protect from rain.
Potato	Land preparation		<ul> <li>- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area.</li> <li>- Select the area with fertile and sandy loam soil rather than with stone</li> </ul>
			and gravel.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell Drain out excess water from the field.
Animal Sciences	•		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.
-	groups (as and when required)	Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.



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



# "Integrated Agromet Advisory Services"

			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goa		Above 3 months of age (as and when	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc subcutaeneously.	
	1	required)	Ectoparasites	Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of water) twice a week.	
Pig		Above 3 months of age (as and when	Coccidial infection (Diarrhea)	Ofloxacine tab twice daily for 5 days.	
	1	required)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buff Mithun		Above 3 months of age (as and when	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)	
	1	required)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
			Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological adviso	ries	
Carp culture	Breedin	ng Pond and water	- Clean and clear water depth should be main	er having 7.0-7.8 pH free from unwanted vegetation and insects. Water tained at 1.0-1.5m.	
		Fish		of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, or seed production. For Pengba & Khabak b. wt. May be less than 300g.	
		Hormone dose	- Ovitide/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.		
	nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p <sup>H</sup> of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.		
	Grow - out	Pond and water	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p <sup>H</sup> of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odo of water half of the water should be drain out and replace with fresh water.		
		Fish		ings/ha can be stocked. Sampling of fish should be done by regular netting.	
		Feed	- Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day. Feed can be fed at 2-3 times a day.		
Paddy cum fish culture			- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.		
iiiii cuitule			care (1.1) as supplem	ichar j 100d. 1110id insocueluc/pesueluc application.	



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



#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 19<sup>th</sup> August, 2014

#### 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 20<sup>th</sup> to 24<sup>th</sup> August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West  $(15^{th} to 18^{th} August, 2014)$ 

During past four days sky was partly cloudy to mainly cloudy. 67.7 **mm** rainfall was recorded during past four days. Maximum temperature range observed was 30.9-32.4 °C, range of minimum temperature observed was 19.9-22.0 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 83.8 % respectively. The average wind speed range was 0.5-3.0 km/hr.

Weather forecast for next five days of Chandel (20<sup>th</sup> to 24<sup>th</sup> August, 2014)

There may be light rains upto Saturday. Sky may be partly cloudy to cloudy with maximum temp. of  $31.0-33.0\,^{\circ}\text{C}$  & minimum temp.  $22.0-24.0\,^{\circ}\text{C}$ . Relative humidity may reach a maximum of 99 % (maximum RH) & 95 % (minimum RH). The average wind speed may be 3-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	J.	I	
Rice	Tillering of		- Ridges may be well constructed to maintain optimum water level of 5-8cm.
	Main Kharif	Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam) after rains.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water after rains.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have rains during next five days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	S		
Cabbage/	Nursery raising		- Farmers having polyhouses may raise nurseries of cole crops.
Cauliflower/ Broccoli			- Prophylactic and curative measures such as soil fumigation/ soil sterilization against damping off should be strictly followed with either
			Captan or Sixer Provide moveable/ temporary sheds to protect from rain.
Potato	Land preparation		<ul> <li>- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area.</li> <li>- Select the area with fertile and sandy loam soil rather than with stone</li> </ul>
			and gravel.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	<ul> <li>Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.</li> <li>Drain out excess water from the field.</li> </ul>
Animal Sciences	·		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.
	groups (as and when required)	Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.



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



# "Integrated Agromet Advisory Services"

				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goa	it	Above 3 months of age (as and when		Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc subcutaeneously.	
		required)		Ectoparasites	Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of water) twice a week.	
Pig		Above 3 months of		Coccidial infection	Ofloxacine tab twice daily for 5 days.	
		age (as and when		(Diarrhea)		
		requ	ired)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
					Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Bufl Mithun	alo/	Above 3 months of age (as and when required)		Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)	
				Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.	
Fishery:						
Type of Farming	Stage		Management	Agro-metrological adviso	ries	
Carp culture	Breed	ing	Pond and water	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.		
			Fish		of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, or seed production. For Pengba & Khabak b. wt. May be less than 300g.	
		Hormo dose		- Ovitide/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.		
	nurser	nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p <sup>H</sup> of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.		
	Grow	_	Pond and water	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p <sup>H</sup> of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.		
		j	Fish		ings/ha can be stocked. Sampling of fish should be done by regular netting.	
			Feed		fortified with vitamins and minerals should be provided @ 3-5% body	
				weight per day. Feed	can be fed at 2-3 times a day.	
Paddy cum			agement	- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil		
fish culture	ılture		cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.			



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



#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 19<sup>th</sup> August, 2014

#### Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 20<sup>th</sup> to 24<sup>th</sup> August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 18<sup>th</sup> August, 2014)

During past four days sky was partly cloudy to mainly cloudy. 67.7 **mm** rainfall was recorded during past four days. Maximum temperature range observed was 30.9-32.4 °C, range of minimum temperature observed was 19.9-22.0 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 83.8 % respectively. The average wind speed range was 0.5-3.0 km/hr.

Weather forecast for next five days of Churachandpur (20<sup>th</sup> to 24<sup>th</sup> August, 2014)

There may be light rains upto Saturday. Sky may be partly cloudy to cloudy with maximum temp. of  $30.0-32.0\,^{\circ}\text{C}$  & minimum temp.  $21.0-23.0\,^{\circ}\text{C}$ . Relative humidity may reach a maximum of  $100\,\%$  (maximum RH) & 94 % (minimum RH). The average wind speed may be 2-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of		- Ridges may be well constructed to maintain optimum water level of 5-8cm.
	Main Kharif	Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam) after rains.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water after rains.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have rains during next five days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	5	1	
Cabbage/	Nursery raising		- Farmers having polyhouses may raise nurseries of cole crops.
Cauliflower/			- Prophylactic and curative measures such as soil fumigation/ soil
Broccoli			sterilization against damping off should be strictly followed with either Captan or Sixer.
D-4-4-	T 1		- Provide moveable/ temporary sheds to protect from rain.
Potato	Land preparation		<ul> <li>- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area.</li> <li>- Select the area with fertile and sandy loam soil rather than with stone and gravel.</li> </ul>
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	<ul> <li>Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.</li> <li>Drain out excess water from the field.</li> </ul>
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.
	groups (as and when required)	Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.



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# "Integrated Agromet Advisory Services"

				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goa	nt	Above 3 months of		Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-	
Sheep, Godt		age (as and when required)		ZinciotoAuciniu	cutaeneously.	
				Ectoparasites	Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of	
				1	water) twice a week.	
Pig		Above 3 months of		Coccidial infection	Ofloxacine tab twice daily for 5 days.	
		age (as and when		(Diarrhea)		
		requ	ired)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30	
					ml per adult animal once.	
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
					Give mineral mixture like Vimicon and Ascagold suspension in pregnant	
					sow @ 20g and 20ml resp. in feed.	
Cattle / Buff	falo/		ve 3 months of	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black	
Mithun		_	(as and when		Quarter disease during cold season (Nov. & Dec.)	
		requ	ired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution a	
					fortnight interval.	
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.	
Fishery:						
Type of Farming	Stage		Management	Agro-metrological adviso	ries	
Carp	Breed	ling	Pond and	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water		
culture			water	depth should be main		
			Fish		of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu,	
				Mrigal, Catla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than 300g.		
		Hormone dose		- Ovitide/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.		
	nursei	ries		- Ponds should be free from unwanted vegetation and insects and water depth should be		
				maintained at 1.0-1.5m. p <sup>H</sup> of pond water should be maintained at 7.0-7.5. Feeds should be		
				provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.		
	Grow	· -	Pond and	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p <sup>H</sup> of		
	out		water	pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour		
			F: .1.		rater should be drain out and replace with fresh water.	
			Fish		ings/ha can be stocked. Sampling of fish should be done by regular netting.	
			Feed		fortified with vitamins and minerals should be provided @ 3-5% body	
D. 11	XXI.				can be fed at 2-3 times a day.	
Paddy cum			agement	- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil		
fish culture	ture			cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.		