

Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 19th August, 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 20th to 24th August, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(16^{th}$ to 18^{th} August, 2016) The sky remained variable to overcast. 5.8 mm rainfall was recorded

The sky remained variable to overcast. **5.8 mm** rainfall was recorded during past three days. Maximum temperature range observed was 30.5 to 32.5 $^{\circ}$ C, range of minimum temperature observed was 22.6 to 23.2 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 90 % and 72.7 % respectively. The average wind speed range was 4.4 to 6.7 km/hr.

Weather forecast for next five days of Bishnupur (20th to 24th August, 2016)

Likely to have light rainfall upto Wednesday. Sky will remain mainly cloudy to overcast with maximum temp. 31 - 34 $^{\circ}$ C & minimum temp. 22 - 24 $^{\circ}$ C. Relative humidity may reach upto 100 % (max RH) & 75 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be Easterly to North West Westerly during the next five days.

Name of the cr	op	Stage		Pest and diseas	se Agro-meteorological advisories	
Field Crops		I.				
Main kharif rice		Tillering stage			 Drain out the water and apply 33kg of urea/ ha as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Ridges should be well constructed to maintain water level of 5-8cm. 	
				Leaf folder	> Spray Thiomethoxam @ 5 gm/ 15 lit of water after rain.	
				Case worm	Drain out the field for 3 days or spray Lambdacyhothrin 15 ml/15 lit of water.	
				Stem Borer/ Gal midge/Plant Hoppers or Thri		
				Any sucking insect	> Spray Imidachloprid @ 8ml/ 15 litres of water.	
Kharif maize Cob maturit harvesting		Cob maturity a harvesting	ınd		 Maintain proper drainage system to avoid water logging. Mature cobs may be harvested. 	
Soybean/ Groundnut		Vegetative			 Maintain proper drainage system to avoid water logging. For control of red hairy caterpillars in crops at vegetative stage, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rain. 	
				Tikka disease in groundnut	 Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut after rain. 	
				Hairy Caterpilla	rs > Spray Dichlorvos EC 0.05% to avoid hairy caterpillars.	
Storage (seed)					➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.	
Horticulture Crops	S	1		•		
* Drain-out excess	water fr	om the crop area	ı.			
Early Cauliflower	Nu	rsery			- After rain, prepare raised beds for cauliflower nursery also prepare temporary rain shelter to protect it. Proper drainage may be well constructed. Prepare raised nursery beds. Recommended varieties are: White Shot, White Flash and Swetha.	
Citrus	Nu	rsery			- Spray Imidachloprid@2ml/lit of water or Dichlorovos @ 0.5ml/lit water after rain to prevent insect pest infestation.	
Grov		own-up trees	Powd	lery mildew	- If powdery mildew is seen in the orchard, then Bayleton @7 g $/$ 15 lit of water should be sprayed in the fruit bearing citrus.	
Tree bean		Planting			- Transplant raised nursery in the foot-hills or upland area.	
Tomato		Nursery raising			- Nursery raising of off-season tomato may be done under polyhouse.	
King Chilli	Fru	ruiting Fruit		rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water after rain.	
Turmeric/ Ginger		hizome Rhizon		me rot	- To prevent rhizome rot spray Redomil MZ 72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times after rain.	
0 -					- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.	







Animal Science			T
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
 Keep the pres 	mises clean and spr	ay disinfectants to control	
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium permangnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
		Coccidiosis	 Keep the litter dry & add 2 kg little powder for 100 sq. it. area and mix it property. Use Amprolium @1.5g/lit of drinking water for 5-7 days and electrolyte can be associated.
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/ lit water. Use medicated water for drenching.
		Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young ones	Care and management Mites infestation	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds Spray with Skin Heal Spray in sufficient quantity.
			>
~		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If not already done, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia, etc. If the animals are affected by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	 Food supplements may be given @30-50 gm/animals. After the birth of the self the new born must be fed with Colostrum within the first two hours. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds. Make arrangements to protect animals from heavy rain/ sun/ excessive heat.
		Milk Fever	Protect from milk fever by giving daily a mixture of calcium and phosphorus @ 70-100ml.
Fishery:	La	T = -	
Type of Farming	Stage	Management	Agro-metrological advisories
	Fish nurseries	e of fishes during heavy r Pond and water	win period. ➤ Water depth should be maintain at 1.0-1.5m
Carp culture	1 isii nurseries		 Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	Fish feed should be provided @ 10-15 % body weight per day.
		Fish	 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting. Partial harvesting of marketable size fishes are also recommended
		Fish	Feed should be provided @ 3-5 % body weight per day Feed can be fed at 2 times a day.
	Paddy cum fish culture	water	 Water depth of the field should be maintained.

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ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





> 20-40% of the paddy plot can be made as 1. > 1000-3000 fish fingerlings can be stocked in > Feeding should be done @ 2% body weigh 5	1 hectare rice field.
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Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 19th August, 2016

Chandel

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Weather forecast for next five days of Chandel (20th to 24th August, 2016)

Likely to have light rainfall upto Wednesday. Sky will remain mainly cloudy to overcast with maximum temp. 30 - 33 $^{\circ}$ C & minimum temp. 22 - 24 $^{\circ}$ C. Relative humidity may reach upto 99 % (max RH) & 80 % (min RH). The average wind speed may be 2-5 km/hr. Wind direction may be South East Easterly to Westerly during the next five days.

Name of the c	rop	Stage	Stage Pest and disease		se Agro-meteorological advisories	
Field Crops				•		
Main kharif rice		Tillering stage			 Drain out the water and apply 33kg of urea/ ha as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Ridges should be well constructed to maintain water level of 5-8cm. 	
				Leaf folder	> Spray Thiomethoxam @ 5 gm/ 15 lit of water after rain.	
				Case worm	Drain out the field for 3 days or spray Lambdacyhothrin 15 ml/15 lit of water.	
				Stem Borer/ Gal midge/Plant Hoppers or Thri		
				Any sucking insect	> Spray Imidachloprid @ 8ml/ 15 litres of water.	
Kharif maize		Cob maturity a harvesting	and		 ➤ Maintain proper drainage system to avoid water logging. ➤ Mature cobs may be harvested. 	
Soybean/ Groundnut		Vegetative			 Maintain proper drainage system to avoid water logging. For control of red hairy caterpillars in crops at vegetative stage, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rain. 	
				Tikka disease in groundnut	 Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut after rain. 	
				Hairy Caterpilla	rs > Spray Dichlorvos EC 0.05% to avoid hairy caterpillars.	
Storage (seed)					➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.	
Horticulture Crop	S	I.			5	
* Drain-out excess	water fr	om the crop area	a.			
Early Cauliflower	Nu	rsery			- After rain, prepare raised beds for cauliflower nursery also prepare temporary rain shelter to protect it. Proper drainage may be well constructed. Prepare raised nursery beds. Recommended varieties are: White Shot, White Flash and Swetha.	
Citrus	Nu	rsery			- Spray Imidachloprid@2ml/lit of water or Dichlorovos @ 0.5ml/lit water after rain to prevent insect pest infestation.	
Grown-up tree		own-up trees	Powdery mildew		- If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of wate should be sprayed in the fruit bearing citrus.	
Tree bean	Pla	Planting			- Transplant raised nursery in the foot-hills or upland area.	
Tomato	Nu	rsery raising			- Nursery raising of off-season tomato may be done under polyhouse.	
King Chilli	Fru	iting	Fruit rot and aphid		- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water after rain.	
Turmeric/ Ginger		Rhizome Rhizo formation		me rot	- To prevent rhizome rot spray Redomil MZ 72 W.P. @ 2 g/lit of water at 15 days interval for 2-3 times after rain.	
					- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.	







Animal Science	?S		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
	mises clean and spra	ay disinfectants to control	mosquitoes.
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium permangnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
		Coccidiosis	Use Amprolium @1.5g/lit of drinking water for 5-7 days and electrolyte can be associated.
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/ lit water. Use medicated water for drenching.
		Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young ones	Care and management Mites infestation	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds Spray with Skin Heal Spray in sufficient quantity.
		whites infestation	> Spray with Skill Hear Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If not already done, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia, etc. If the animals are affected by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/300 kg body weight.
		Care & management	 Food supplements may be given @30-50 gm/animals. After the birth of the self the new born must be fed with Colostrum within the first two hours. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds. Make arrangements to protect animals from heavy rain/ sun/ excessive heat.
		Milk Fever	Protect from milk fever by giving daily a mixture of calcium and phosphorus @ 70-100ml.
Fishery:	1	1	
Type of Farming	Stage	Management	Agro-metrological advisories
	nds to avoid escap	ı e of fishes during heavy r	ın period.
Carp culture	Fish nurseries	Pond and water	 Water depth should be maintain at 1.0-1.5m Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	Fish feed should be provided @ 10-15 % body weight per day.
		Fish	 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting. Partial harvesting of marketable size fishes are also recommended
		Fish	 Feed should be provided @ 3-5 % body weight per day Feed can be fed at 2 times a day.
	Paddy cum fish	water	 Water depth of the field should be maintained.
	culture		

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 20-40% of the paddy plot can be made as 1.0-1.5m deep trenches. 1000-3000 fish fingerlings can be stocked in 1 hectare rice field.
Feeding should be done @ 2% body weigh 5t per day.



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Churachandpur

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Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th August, 2016) The sky remained variable to overcast. 5.8 mm rainfall was recorded

during past three days. Maximum temperature range observed was 30.5 to 32.5 °C, range of minimum temperature observed was 22.6 to 23.2 °C, mean relative humidity observed in morning and afternoon were 90 %and 72.7 % respectively. The average wind speed range was 4.4 to 6.7 km/hr.

Weather forecast for next five days of Churachandpur (20th to 24th August, 2016)

Likely to have light rainfall upto Wednesday. Sky will remain mainly cloudy to overcast with maximum temp. 30 - 33 °C & minimum temp. 22 -24 $^{\circ}$ C. Relative humidity may reach upto 100 % (max RH) & 83 $^{\circ}$ (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North East Easterly to North West Westerly during the next five days.

Name of the crop		Stage		Pest and diseas	Agro-met	teorological advisories
Field Crops				JI		
Main kharif rice		Tillering stage			nsplanting. Drain in water afte	33kg of urea/ ha as top dress after 30days of er 48hrs of top-dressing. eted to maintain water level of 5-8cm.
				Leaf folder	Spray Thiomethoxam @ 5 g	m/ 15 lit of water after rain.
				Case worm	Drain out the field for 3 daywater.	ys or spray Lambdacyhothrin 15 ml/15 lit of
				Stem Borer/ Gal midge/Plant Hoppers or Thri	Spray Coragen 3-5 ml per 1:	5 lit of water at the early stage of infestation.
				Any sucking insect	Spray Imidachloprid @ 8	ml/ 15 litres of water.
Kharif maize	Kharif maize Cob maturity and harvesting		nd		Maintain proper drainage syst Mature cobs may be harvested	
Soybean/ Groundn	nut	Vegetative			Maintain proper drainage sy For control of red hairy cate Malathion @ 20 kg/ ha to co (0.6ml/ lit of water) after rai	rpillars in crops at vegetative stage, dust 5% ontrol it or spray Dichlorovos 76 EC 0.05%
				Tikka disease in groundnut	Spray Carbendazim @ 0.5g groundnut after rain.	/ lit of water to control Tikka disease in
				Hairy Caterpilla	Spray Dichlorvos EC 0.05%	to avoid hairy caterpillars.
Storage (seed)					seeds along with charcoal. Ch	eds in RC-seed bins after proper drying of neck for moisture content or weight of seeds. grains in well ventilated godowns. Spray
Horticulture Crops					<i>B</i>	
* Drain-out excess wa	ater fro	om the crop area	l.			
Early Cauliflower	Nur	rsery			elter to protect it. Proper drain	cauliflower nursery also prepare temporary nage may be well constructed. Prepare raised es are: White Shot, White Flash and Swetha.
Citrus	Nur	rsery				vater or Dichlorovos @ 0.5ml/lit water after
	Gro	own-up trees	Powd	lery mildew	wdery mildew is seen in the obe sprayed in the fruit bearing	orchard, then Bayleton @7 g / 15 lit of water
Tree bean	Plai	lanting			- Transplant raised nursery in the foot-hills or upland area.	
Tomato		Jursery raising			ery raising of off-season to	omato may be done under polyhouse.
King Chilli				rot and aphid		er + Imidacloprid @ 3ml/10lit of water after
Turmeric/ Ginger		Rhizome Rhizo:		me rot	terval for 2-3 times after rain.	
Ginger					rown up plants spray Dithan I lactic measures after the rain.	M45 @ 2 to 2.5 ml/lit of water as







Animal Science		Т=:	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Keep the pres	mises clean and spra	ay disinfectants to control	mosquitoes.
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium permangnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
		Coccidiosis	➤ Use Amprolium @1.5g/lit of drinking water for 5-7 days and electrolyte can be associated.
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/ lit water. Use medicated water for drenching.
		Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young ones	Care and management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If not already done, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia, etc. If the animals are affected by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	 Food supplements may be given @30-50 gm/animals. After the birth of the self the new born must be fed with Colostrum within the first two hours. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds. Make arrangements to protect animals from heavy rain/ sun/ excessive heat.
		Milk Fever	Protect from milk fever by giving daily a mixture of calcium and phosphorus @ 70-100ml.
Fishery:	G4	M	A A 1 1 1 1 1
Type of Farming	Stage	Management	Agro-metrological advisories
		e of fishes during heavy r	
Carp culture	Fish nurseries	Pond and water	 Water depth should be maintain at 1.0-1.5m Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	Fish feed should be provided @ 10-15 % body weight per day.
		Fish	 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting. Partial harvesting of marketable size fishes are also recommended
		Fish	 Feed should be provided @ 3-5 % body weight per day Feed can be fed at 2 times a day.
	Paddy cum fish culture	water	Water depth of the field should be maintained.

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 ≥ 20-40% of the paddy plot can be made as 1.0-1.5m de ≥ 1000-3000 fish fingerlings can be stocked in 1 hectar ⇒ Feeding should be done @ 2% body weigh 5t per day 	e rice field.
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Imphal East

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				Leaf folder	➤ Spray Thiomethoxam @ 5 gm/ 15 lit of water after rain.	
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				Any sucking insect	➤ Spray Imidachloprid @ 8ml/ 15 litres of water.	
Kharif maize Cob maturi harvesting		Cob maturity a harvesting	ınd		 Maintain proper drainage system to avoid water logging. Mature cobs may be harvested. 	
Soybean/ Groundnut		Vegetative			 Maintain proper drainage system to avoid water logging. For control of red hairy caterpillars in crops at vegetative stage, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rain. 	
				Tikka disease in groundnut	Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut after rain.	
				Hairy Caterpilla	rs > Spray Dichlorvos EC 0.05% to avoid hairy caterpillars.	
Storage (seed)					➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.	
Horticulture Crops	S					
* Drain-out excess	water fr	om the crop area	ι.			
Early Cauliflower	Nu	rsery			- After rain, prepare raised beds for cauliflower nursery also prepare temporary rain shelter to protect it. Proper drainage may be well constructed. Prepare raised nursery beds. Recommended varieties are: White Shot, White Flash and Swetha.	
Citrus	Nu	rsery			- Spray Imidachloprid@2ml/lit of water or Dichlorovos @ 0.5ml/lit water after rain to prevent insect pest infestation.	
Gro		own-up trees	Powd	lery mildew	- If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus.	
Tree bean		Planting			- Transplant raised nursery in the foot-hills or upland area.	
Tomato		Nursery raising			- Nursery raising of off-season tomato may be done under polyhouse.	
King Chilli	Fru	Fruiting Fruit		rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water after rain.	
Turmeric/ Ginger		Rhizome Rhizomeormation		me rot	- To prevent rhizome rot spray Redomil MZ 72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times after rain.	
0 -					- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.	







Animal Science			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
		ay disinfectants to control	<u> </u>
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium permangnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
		Coccidiosis	Use Amprolium @1.5g/lit of drinking water for 5-7 days and electrolyte can be associated.
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/lit water. Use medicated water for drenching.
		Vaccination	Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups	Care and management	➤ Mineral mixture be added in feed @10-20 g/adult animal.
	except the young ones	_	 Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	 Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If not already done, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia, etc. If the animals are affected by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it
			affects heart and cause even death of the calves.
		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	 Food supplements may be given @30-50 gm/animals. After the birth of the self the new born must be fed with Colostrum within the first two hours. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds.
		Milk Fever	 Make arrangements to protect animals from heavy rain/ sun/ excessive heat. Protect from milk fever by giving daily a mixture of calcium and phosphorus @ 70-100ml.
Fishery:	•	1	
Type of Farming	Stage	Management	Agro-metrological advisories
		e of fishes during heavy r	
Carp culture	Fish nurseries	Pond and water	 Water depth should be maintain at 1.0-1.5m Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	Fish feed should be provided @ 10-15 % body weight per day.
		Fish	
			 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting.
			 Partial harvesting of marketable size fishes are also recommended
		Fish	Feed should be provided @ 3-5 % body weight per day
	Paddy cum fish	water	Feed can be fed at 2 times a day.Water depth of the field should be maintained.
	culture		

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ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





> 20-40% of the paddy plot can be made as 1. > 1000-3000 fish fingerlings can be stocked in > Feeding should be done @ 2% body weigh 5	1 hectare rice field.
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Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 19th August, 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 20th to 24th August, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(16^{th}$ to 18^{th} August, 2016) The sky remained variable to overcast. 5.8 mm rainfall was recorded

The sky remained variable to overcast. **5.8 mm** rainfall was recorded during past three days. Maximum temperature range observed was 30.5 to 32.5 $^{\circ}$ C, range of minimum temperature observed was 22.6 to 23.2 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 90 % and 72.7 % respectively. The average wind speed range was 4.4 to 6.7 km/hr.

Weather forecast for next five days of Imphal West $(20^{th}\ to\ 24^{th}\ August,\ 2016)$

Likely to have light rainfall upto Wednesday. Sky will remain variable to overcast with maximum temp. 31 - 34 $^{\circ}$ C & minimum temp. 22 - 24 $^{\circ}$ C. Relative humidity may reach upto 100 % (max RH) & 60 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be South East Easterly to North West Westerly during the next five days.

Name of the cro	op	Stage		Pest and diseas	se	Agro-meteorological advisories	
Field Crops		I.					
Main kharif rice		Tillering stage				 Drain out the water and apply 33kg of urea/ ha as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Ridges should be well constructed to maintain water level of 5-8cm. 	
				Leaf folder		> Spray Thiomethoxam @ 5 gm/ 15 lit of water after rain.	
				Case worm		Drain out the field for 3 days or spray Lambdacyhothrin 15 ml/15 lit of water.	
				Stem Borer/ Gal midge/Plant Hoppers or Thri		> Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.	
				Any sucking insect		> Spray Imidachloprid @ 8ml/ 15 litres of water.	
Kharif maize		Cob maturity a harvesting	and			Maintain proper drainage system to avoid water logging.Mature cobs may be harvested.	
Soybean/ Groundnut Vegetative					 Maintain proper drainage system to avoid water logging. For control of red hairy caterpillars in crops at vegetative stage, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rain. 		
				Tikka disease in groundnut	ļ	Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut after rain.	
				Hairy Caterpilla	rs	> Spray Dichlorvos EC 0.05% to avoid hairy caterpillars.	
Storage (seed)						➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.	
Horticulture Crops		l					
* Drain-out excess	water fr	om the crop area	ì.				
Early Cauliflower	Nu	rsery			rai	After rain, prepare raised beds for cauliflower nursery also prepare temporary n shelter to protect it. Proper drainage may be well constructed. Prepare raised rsery beds. Recommended varieties are: White Shot, White Flash and Swetha.	
Citrus	Nu	rsery				Spray Imidachloprid@2ml/lit of water or Dichlorovos @ 0.5ml/lit water after n to prevent insect pest infestation.	
Gro		own-up trees	Powd	lery mildew		- If powdery mildew is seen in the orchard, then Bayleton $@7\ g\ /\ 15$ lit of water should be sprayed in the fruit bearing citrus.	
Tree bean	Tree bean Planting					Transplant raised nursery in the foot-hills or upland area.	
Tomato	Nu	ursery raising				Nursery raising of off-season tomato may be done under polyhouse.	
King Chilli	Fru	· C		rot and aphid	- S rai	Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water after n.	
Turmeric/ Ginger		zome nation	Rhizo	me rot	da	- To prevent rhizome rot spray Redomil MZ 72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times after rain.	
O						For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as ophylactic measures after the rain.	







Animal Science			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
		ay disinfectants to control	<u> </u>
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium permangnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
		Coccidiosis	Use Amprolium @1.5g/lit of drinking water for 5-7 days and electrolyte can be associated.
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/lit water. Use medicated water for drenching.
		Vaccination	Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups	Care and management	➤ Mineral mixture be added in feed @10-20 g/adult animal.
	except the young ones	_	 Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	 Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If not already done, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia, etc. If the animals are affected by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it
			affects heart and cause even death of the calves.
		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	 Food supplements may be given @30-50 gm/animals. After the birth of the self the new born must be fed with Colostrum within the first two hours. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds.
		Milk Fever	 Make arrangements to protect animals from heavy rain/ sun/ excessive heat. Protect from milk fever by giving daily a mixture of calcium and phosphorus @ 70-100ml.
Fishery:	•	1	
Type of Farming	Stage	Management	Agro-metrological advisories
		e of fishes during heavy r	
Carp culture	Fish nurseries	Pond and water	 Water depth should be maintain at 1.0-1.5m Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	Fish feed should be provided @ 10-15 % body weight per day.
		Fish	
			 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting.
			 Partial harvesting of marketable size fishes are also recommended
		Fish	Feed should be provided @ 3-5 % body weight per day
	Paddy cum fish	water	Feed can be fed at 2 times a day.Water depth of the field should be maintained.
	culture		

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ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





> 20-40% of the paddy plot can be made as 1. > 1000-3000 fish fingerlings can be stocked in > Feeding should be done @ 2% body weigh 5	1 hectare rice field.
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Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 19th August, 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 20th to 24th August, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(16^{th}$ to 18^{th} August, 2016) The sky remained variable to overcast. 5.8 mm rainfall was recorded

The sky remained variable to overcast. **5.8 mm** rainfall was recorded during past three days. Maximum temperature range observed was 30.5 to 32.5 $^{\circ}$ C, range of minimum temperature observed was 22.6 to 23.2 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 90 % and 72.7 % respectively. The average wind speed range was 4.4 to 6.7 km/hr.

Weather forecast for next five days of Senapati (20th to 24th August, 2016)

Likely to have light rainfall upto Wednesday. Sky will remain variable to mainly cloudy with maximum temp. 30 - 33 $^{\circ}$ C & minimum temp. 22 - 24 $^{\circ}$ C. Relative humidity may reach upto 98 % (max RH) & 57 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be South South-Easterly to North West Westerly during the next five days.

Name of the crop	Stage		Pest and disease	!	Agro-meteorological advisories	
Field Crops	1			•		
Main kharif rice	Tillering stage	Tillering stage		trai	rain out the water and apply 33kg of urea/ ha as top dress after 30days of asplanting. Drain in water after 48hrs of top-dressing. idges should be well constructed to maintain water level of 5-8cm.	
			Leaf folder	>	Spray Thiomethoxam @ 5 gm/ 15 lit of water after rain.	
			Case worm	>	Drain out the field for 3 days or spray Lambdacyhothrin 15 ml/15 lit of water.	
			Stem Borer/ Gall midge/Plant Hoppers or Thrip	s	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.	
			Any sucking insect	>	Spray Imidachloprid @ 8ml/ 15 litres of water.	
Kharif maize	Cob maturity a harvesting	and			Maintain proper drainage system to avoid water logging. Mature cobs may be harvested.	
Soybean/ Groundnu	Vegetative	Vegetative		> >	Maintain proper drainage system to avoid water logging. For control of red hairy caterpillars in crops at vegetative stage, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rain.	
			Tikka disease in groundnut	>	Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut after rain.	
			Hairy Caterpillar	s >	Spray Dichlorvos EC 0.05% to avoid hairy caterpillars.	
Storage (seed)	rage (seed)			S	Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.	
Horticulture Crops	,			1		
* Drain-out excess wate	r from the crop area	a.				
Early Cauliflower	Nursery			rain she	rain, prepare raised beds for cauliflower nursery also prepare temporary elter to protect it. Proper drainage may be well constructed. Prepare raised beds. Recommended varieties are: White Shot, White Flash and Swetha.	
Citrus	Nursery			rain to	/ Imidachloprid@2ml/lit of water or Dichlorovos @ 0.5ml/lit water after prevent insect pest infestation.	
	Grown-up trees Po		lery mildew		If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus.	
Tree bean Planting					splant raised nursery in the foot-hills or upland area.	
	Nursery raising	ery raising			ery raising of off-season tomato may be done under polyhouse.	
King Chilli	Fruiting		rot and aphid	- Spray rain.	Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water after	
2 002 22202	Rhizome formation	Rhizo	ome rot - 7		event rhizome rot spray Redomil MZ 72 W.P. @ 2 g/ lit of water at 15 terval for 2-3 times after rain.	
					rown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as lactic measures after the rain.	







Animal Science			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
 Keep the pren 	mises clean and spra	ay disinfectants to control	mosquitoes.
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management Coccidiosis Deworming	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium permangnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly. Use Amprolium @1.5g/lit of drinking water for 5-7 days and electrolyte can be associated. Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with
		Deworming	half the dose.
Sheep/ Goat	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/ lit water. Use medicated water for drenching.
		Vaccination	Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young ones	Care and management Mites infestation	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If not already done, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia, etc. If the animals are affected by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	 Food supplements may be given @30-50 gm/animals. After the birth of the self the new born must be fed with Colostrum within the first two hours. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds. Make arrangements to protect animals from heavy rain/ sun/ excessive heat.
		Milk Fever	Protect from milk fever by giving daily a mixture of calcium and phosphorus @ 70-100ml.
Fishery: Type of	Stage	Management	Agro-metrological advisories
Farming	Stage	Wanagement	Agro-nicu ologicai auvisories
	onds to avoid escap	e of fishes during heavy r	
Carp culture	Fish nurseries	Pond and water	 Water depth should be maintain at 1.0-1.5m Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	Fish feed should be provided @ 10-15 % body weight per day.
		Fish	 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting. Partial harvesting of marketable size fishes are also recommended
		Fish	 Feed should be provided @ 3-5 % body weight per day Feed can be fed at 2 times a day.
	Paddy cum fish culture	water	 Water depth of the field should be maintained.

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ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





> 20-40% of the paddy plot can be made as 1. > 1000-3000 fish fingerlings can be stocked in > Feeding should be done @ 2% body weigh 5	1 hectare rice field.
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Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 19th August, 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 20th to 24th August, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(16^{th}$ to 18^{th} August, 2016) The sky remained variable to overcast. 5.8 mm rainfall was recorded

The sky remained variable to overcast. **5.8 mm** rainfall was recorded during past three days. Maximum temperature range observed was 30.5 to 32.5 $^{\circ}$ C, range of minimum temperature observed was 22.6 to 23.2 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 90 % and 72.7 % respectively. The average wind speed range was 4.4 to 6.7 km/hr.

Weather forecast for next five days of Tamenglong $(20^{th}\ to\ 24^{th}\ August,\ 2016)$

Likely to have light rainfall upto Wednesday. Sky will remain variable to overcast with maximum temp. 30 - 33 $^{\circ}$ C & minimum temp. 22 - 24 $^{\circ}$ C. Relative humidity may reach upto 100 $^{\circ}$ (max RH) & 63 $^{\circ}$ (min RH). The average wind speed may be 2 km/hr. Wind direction may be South East-Easterly to Westerly during the next five days.

Name of the crop		Stage		Pest and diseas	e	Agro-meteorological advisories	
Field Crops				JI			
Main kharif rice		Tillering stage			t	Drain out the water and apply 33kg of urea/ ha as top dress after 30days of ransplanting. Drain in water after 48hrs of top-dressing. Ridges should be well constructed to maintain water level of 5-8cm.	
				Leaf folder		➤ Spray Thiomethoxam @ 5 gm/15 lit of water after rain.	
				Case worm		Drain out the field for 3 days or spray Lambdacyhothrin 15 ml/15 lit of water.	
				Stem Borer/ Gal midge/Plant Hoppers or Thri		> Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.	
				Any sucking insect	,	Spray Imidachloprid @ 8ml/ 15 litres of water.	
Kharif maize		Cob maturity and harvesting				 Maintain proper drainage system to avoid water logging. Mature cobs may be harvested. 	
Soybean/ Groundnut Vegetative					 Maintain proper drainage system to avoid water logging. For control of red hairy caterpillars in crops at vegetative stage, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rain. 		
				Tikka disease in groundnut		Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut after rain.	
				Hairy Caterpilla	rs	➤ Spray Dichlorvos EC 0.05% to avoid hairy caterpillars.	
Storage (seed)					➤ Dry, clean and store the seeds in RC-seed bins after prop seeds along with charcoal. Check for moisture content or wei After proper drying, store grains in well ventilated god Malathion 1% in godowns.		
Horticulture Crops							
* Drain-out excess wa	ater fro	om the crop area	l.				
Early Cauliflower	Nur	sery			rain	ter rain, prepare raised beds for cauliflower nursery also prepare temporary shelter to protect it. Proper drainage may be well constructed. Prepare raised ery beds. Recommended varieties are: White Shot, White Flash and Swetha.	
Citrus	Nur	sery			- Sp	ray Imidachloprid@2ml/lit of water or Dichlorovos @ 0.5ml/lit water after to prevent insect pest infestation.	
	Grown-up trees Power		Powd	lery mildew	- If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus.		
Tree bean	Plai	Planting				- Transplant raised nursery in the foot-hills or upland area.	
Tomato	Nur	ursery raising				rrsery raising of off-season tomato may be done under polyhouse.	
King Chilli	Frui			rot and aphid	rain.		
Turmeric/ Ginger		zome nation	Rhizo	me rot	days	prevent rhizome rot spray Redomil MZ 72 W.P. @ 2 g/ lit of water at 15 interval for 2-3 times after rain.	
omget						r grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as hylactic measures after the rain.	







Animal Science	?S		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
	mises clean and spra	ay disinfectants to control	mosquitoes.
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium permangnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
		Coccidiosis	Use Amprolium @1.5g/lit of drinking water for 5-7 days and electrolyte can be associated.
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/ lit water. Use medicated water for drenching.
		Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young ones	Care and management Mites infestation	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds Spray with Skin Heal Spray in sufficient quantity.
		whites infestation	> Spray with Skill Hear Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If not already done, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia, etc. If the animals are affected by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/300 kg body weight.
		Care & management	 Food supplements may be given @30-50 gm/animals. After the birth of the self the new born must be fed with Colostrum within the first two hours. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds. Make arrangements to protect animals from heavy rain/ sun/ excessive heat.
		Milk Fever	Protect from milk fever by giving daily a mixture of calcium and phosphorus @ 70-100ml.
Fishery:	1	1	
Type of Farming	Stage	Management	Agro-metrological advisories
	nds to avoid escap	ı e of fishes during heavy r	ın period.
Carp culture	Fish nurseries	Pond and water	 Water depth should be maintain at 1.0-1.5m Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	Fish feed should be provided @ 10-15 % body weight per day.
		Fish	 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting. Partial harvesting of marketable size fishes are also recommended
		Fish	 Feed should be provided @ 3-5 % body weight per day Feed can be fed at 2 times a day.
	Paddy cum fish	water	 Water depth of the field should be maintained.
	culture		

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ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





 20-40% of the paddy plot can be made as 1.0-1.5m deep trenches. 1000-3000 fish fingerlings can be stocked in 1 hectare rice field.
Feeding should be done @ 2% body weigh 5t per day.



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 19th August, 2016

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 20th to 24th August, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(16^{th}$ to 18^{th} August, 2016) The sky remained variable to overcast. 5.8 mm rainfall was recorded

The sky remained variable to overcast. **5.8 mm** rainfall was recorded during past three days. Maximum temperature range observed was 30.5 to 32.5 $^{\circ}$ C, range of minimum temperature observed was 22.6 to 23.2 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 90 % and 72.7 % respectively. The average wind speed range was 4.4 to 6.7 km/hr.

Weather forecast for next five days of Thoubal $(20^{th}$ to 24^{th} August, 2016)

Likely to have light rainfall upto Wednesday. Sky will remain mainly cloudy to overcast with maximum temp. 30 - 33 $^{\circ}$ C & minimum temp. 22 - 24 $^{\circ}$ C. Relative humidity may reach upto 100 % (max RH) & 77 % (min RH). The average wind speed may be 2-6 km/hr. Wind direction may be South East-Easterly to North West Westerly during the next five days.

Name of the crop		Stage		Pest and disease	:	Agro-meteorological advisories	
Field Crops				•			
Main kharif rice		Tillering stage				 - Drain out the water and apply 33kg of urea/ ha as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. - Ridges should be well constructed to maintain water level of 5-8cm. 	
				Leaf folder		> Spray Thiomethoxam @ 5 gm/ 15 lit of water after rain.	
				Case worm		Drain out the field for 3 days or spray Lambdacyhothrin 15 ml/15 lit of water.	
				Stem Borer/ Gall midge/Plant Hoppers or Thrip		➤ Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.	
				Any sucking insect		➤ Spray Imidachloprid @ 8ml/ 15 litres of water.	
Kharif maize		Cob maturity and harvesting				 Maintain proper drainage system to avoid water logging. Mature cobs may be harvested. 	
Soybean/ Groundnut Vegetative					 Maintain proper drainage system to avoid water logging. For control of red hairy caterpillars in crops at vegetative stage, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rain. 		
				Tikka disease in groundnut		Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut after rain.	
				Hairy Caterpillar	S	> Spray Dichlorvos EC 0.05% to avoid hairy caterpillars.	
Storage (seed)						➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.	
Horticulture Crops				l		and the green of	
* Drain-out excess wa	ater fro	om the crop area					
Early Cauliflower	Nur	sery			rain	fter rain, prepare raised beds for cauliflower nursery also prepare temporary shelter to protect it. Proper drainage may be well constructed. Prepare raised sery beds. Recommended varieties are: White Shot, White Flash and Swetha.	
Citrus	Nur	sery			rain	oray Imidachloprid@2ml/lit of water or Dichlorovos @ 0.5ml/lit water after to prevent insect pest infestation.	
	Grown-up trees P		Powd	lery mildew	- If powdery mildew is seen in the orchard, then Bayleton @7 g $/$ 15 lit of water should be sprayed in the fruit bearing citrus.		
Tree bean Planting				- T1	Transplant raised nursery in the foot-hills or upland area.		
Tomato		ursery raising				ursery raising of off-season tomato may be done under polyhouse.	
King Chilli	Frui	iting	Fruit	rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water after rain.		
Turmeric/ Ginger				ome rot - 'da		prevent rhizome rot spray Redomil MZ 72 W.P. @ 2 g/ lit of water at 15 s interval for 2-3 times after rain. or grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as obhylactic measures after the rain.	



Manipur Centre, Lamphelpat, Imphal - 795 004





"Gramin Krishi Mausam Seva"

Animal Science			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
 Keep the pren 	mises clean and spra	ay disinfectants to control	mosquitoes.
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management Coccidiosis Deworming	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium permangnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly. Use Amprolium @1.5g/lit of drinking water for 5-7 days and electrolyte can be associated. Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with
			half the dose.
Sheep/ Goat	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/lit water. Use medicated water for drenching.
		Vaccination	Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young ones	Care and management Mites infestation	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If not already done, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia, etc. If the animals are affected by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	 Food supplements may be given @30-50 gm/animals. After the birth of the self the new born must be fed with Colostrum within the first two hours. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds. Make arrangements to protect animals from heavy rain/ sun/ excessive heat.
		Milk Fever	Protect from milk fever by giving daily a mixture of calcium and phosphorus @ 70-100ml.
Fishery: Type of	Stage	Management	Agro-metrological advisories
Farming	Stage	Management	Agro-nicu ologicai auvisories
	onds to avoid escap	e of fishes during heavy r	
Carp culture	Fish nurseries	Pond and water	 Water depth should be maintain at 1.0-1.5m Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	Fish feed should be provided @ 10-15 % body weight per day.
		Fish	 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting. Partial harvesting of marketable size fishes are also recommended
		Fish	 Feed should be provided @ 3-5 % body weight per day Feed can be fed at 2 times a day.
	Paddy cum fish culture	water	 Water depth of the field should be maintained.

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> 20-40% of the paddy plot can be made as 1. > 1000-3000 fish fingerlings can be stocked in > Feeding should be done @ 2% body weigh 5	1 hectare rice field.
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Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 19th August, 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 20th to 24th August, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(16^{th}$ to 18^{th} August, 2016) The sky remained variable to overcast. 5.8 mm rainfall was recorded

The sky remained variable to overcast. **5.8 mm** rainfall was recorded during past three days. Maximum temperature range observed was 30.5 to 32.5 $^{\circ}$ C, range of minimum temperature observed was 22.6 to 23.2 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 90 % and 72.7 % respectively. The average wind speed range was 4.4 to 6.7 km/hr.

Weather forecast for next five days of Ukhrul (20th to 24th August, 2016)

Likely to have light rainfall upto Wednesday. Sky will remain mainly cloudy to overcast with maximum temp. 30 - 33 $^{\circ}$ C & minimum temp. 22 - 24 $^{\circ}$ C. Relative humidity may reach upto 97 % (max RH) & 68 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be South-Easterly to Westerly during the next five days.

Name of the crop		Stage		Pest and diseas		Agro-meteorological advisories	
Field Crops				JI	L		
Main kharif rice		Tillering stage			transp	in out the water and apply 33kg of urea/ ha as top dress after 30days of blanting. Drain in water after 48hrs of top-dressing. ges should be well constructed to maintain water level of 5-8cm.	
				Leaf folder	> S	pray Thiomethoxam @ 5 gm/ 15 lit of water after rain.	
				Case worm		Orain out the field for 3 days or spray Lambdacyhothrin 15 ml/15 lit of water.	
				Stem Borer/ Gal midge/Plant Hoppers or Thri		pray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.	
				Any sucking insect	> S	Spray Imidachloprid @ 8ml/ 15 litres of water.	
Kharif maize Cob maturity and harvesting		nd			intain proper drainage system to avoid water logging. ture cobs may be harvested.		
Soybean/ Groundnut		Vegetative			> F	Maintain proper drainage system to avoid water logging. For control of red hairy caterpillars in crops at vegetative stage, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% 0.6ml/ lit of water) after rain.	
				Tikka disease in groundnut		pray Carbendazim @ 0.5g / lit of water to control Tikka disease in roundnut after rain.	
				Hairy Caterpilla	> S	pray Dichlorvos EC 0.05% to avoid hairy caterpillars.	
Storage (seed)					see Aft	y, clean and store the seeds in RC-seed bins after proper drying of ds along with charcoal. Check for moisture content or weight of seeds. er proper drying, store grains in well ventilated godowns. Spray lathion 1% in godowns.	
Horticulture Crops							
* Drain-out excess wa	ater fro	om the crop area	١.				
Early Cauliflower	Nursery				rain shelt	in, prepare raised beds for cauliflower nursery also prepare temporary er to protect it. Proper drainage may be well constructed. Prepare raised eds. Recommended varieties are: White Shot, White Flash and Swetha.	
Citrus	Nur	Nursery			- Spray I	midachloprid@2ml/lit of water or Dichlorovos @ 0.5ml/lit water after event insect pest infestation.	
	Grown-up trees F		Powd	Powdery mildew		- If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus.	
Tree bean	Plai	nting				lant raised nursery in the foot-hills or upland area.	
Tomato	Nur	Nursery raising				y raising of off-season tomato may be done under polyhouse.	
King Chilli	Frui			rot and aphid	rain.	dedomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water after	
		Rhizome Rhiz formation		me rot	days inter	ent rhizome rot spray Redomil MZ 72 W.P. @ 2 g/ lit of water at 15 val for 2-3 times after rain.	
						wn up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as ctic measures after the rain.	







Animal Science			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Keep the pren	mises clean and spr	ay disinfectants to control	
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Do not give muddy water as there is chance of <i>colibacillosis</i> during the rainy season. Use water sanitizer in drinking water/potassium permangnate (few grains) Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
		Coccidiosis	 Keep the litter dry & add 2 kg little powder for 100 sq. it. area and litt it properly. Use Amprolium @1.5g/lit of drinking water for 5-7 days and electrolyte can be associated.
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose.
Sheep/ Goat	All age groups excepts the young ones	Care & management	 Keep the animals on the platform if possible to avoid <i>Pneumonia</i> due to moisture problem Give multivitamins @15ml orally. Use quality disinfectants for disinfecting the surrounding of the sheds. 21 days after shearing sheep, their bodies should be drenched with Butox @ 2ml/ lit water. Use medicated water for drenching.
		Vaccination	➤ Vaccinate against sheep/ goat pox and Enterotaxaemia.
		De-worming	De-worming of animals should be done using Abendazole/Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young ones	Care and management Mites infestation	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds Spray with Skin Heal Spray in sufficient quantity.
		Wites illestation	>
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If not already done, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & Mouth Disease, Enterotoxaemia, etc. If the animals are affected by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	 Food supplements may be given @30-50 gm/animals. After the birth of the self the new born must be fed with Colostrum within the first two hours. Ensure that the animal sheds remain dry during the monsoon season. Lemon grass oil/ fly repellants can be used to keep flies away in the sheds. Make arrangements to protect animals from heavy rain/ sun/ excessive heat.
		Milk Fever	Protect from milk fever by giving daily a mixture of calcium and phosphorus @ 70-100ml.
Fishery:	T	_	
Type of Farming	Stage	Management	Agro-metrological advisories
		e of fishes during heavy r Pond and water	
Carp culture	Fish nurseries		 Water depth should be maintain at 1.0-1.5m Agri-lime should be applied in ponds Ponds should be free from aquatic weed, predatory insects and fish. Encircle the pond with net or bamboo mat as a preventive measure for flood.
		Feed	Fish feed should be provided @ 10-15 % body weight per day.
		Fish	 About 5 million feeding fries are stocked per 1 ha for pre-nursing pond Duration is 25-45 days.
	Grow out	Pond and water	 Water depth should be maintain at 1.5-2.0m Regular liming should be done @ 30-35 kg/ha at 30 days interval
		Feed	 Sampling of fish for growth, disease (if any) should be done by regular netting. Partial harvesting of marketable size fishes are also recommended
		Fish	 Feed should be provided @ 3-5 % body weight per day Feed can be fed at 2 times a day.
	Paddy cum fish culture	water	 Water depth of the field should be maintained.

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Feeding should be done @ 2% body weigh 5t per day.