

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





MANIPUR BULLETIN

21st November, 2017

<u>Bishnupur</u>

Significant past weather for the preceding bi-weekly of Imphal - West (17 th to 20 th November, 2017)	Weather forecast for next five days of Bishnupur (22 nd to 26 th November, 2017)
mm rainfall. Maximum temperature range of 24.5 to 28.0 °C and minimum temperature range of 16.7 to 18.6 °C with mean	Likely to have no rains upto Sunday and shallow to moderate fog during morning hours of the next three days. Sky may remain mainly clear. The maximum temp. 27 - 28 $^{\circ}$ C & minimum temp. 14-15 $^{\circ}$ C and relative humidity may reach up to 81% (max RH) & 51 % (min RH). The average wind speed may be 2 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Name of the crop	Stage	Pest and disease	- Harvest mature crops. Harvested panicles may be stacked for 5-7 days and turned
Rice	Harriagting to post		regularly for better threshing.
Kice	Harvesting to post harvesting		- After proper threshing, grains must be sundried well before storage. Dry grains/
	narvesting		- After proper timesting, grains must be sundried wen before storage. Dry grains/
			seeds to 12-14% moisture if mechanical thresher is used.
			- Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is
	0 1 11		slightly wet.
Rapeseed/ Mustard	Seed collection		- Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
•	and sowing		- Recommended variety – M-27. Seed rate is $10-12 \text{ kg/ha}$.
			- Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then
			sow for the control of white rust and Downey Mildew at seedling stage.
	Seed collection		Land preparation may be done for sowing field pea. Sowing may be done at a
Field Pea	and sowing		spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/
	and sowing		hectare.
			Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relay
Lentil/ Blackgram	Seed collection		crop in the crop fields where the soil moisture is optimum for seed germination.
(late variety)	and sowing		Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade
			then sow it.
			For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying
	Post harvest		of seeds along with charcoal at 80:20. Check for moisture content or weight of
Seeds storage	management		charcoal and dry if required.
0	-		For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops			
Light watering during	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
	(26-30 days old		followed by 46 kg Urea in two splits dose with an interval of 20-40 days of
	seedlings) to early		transplanting.
	vegetative		
Cauliflower	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
Caumiower	(25-30 days old		followed by 50 kg urea in two splits dose with an interval of 20-40 days after
	seedlings) to early		transplanting for main season crops.
	vegetative		transplanting for main season crops.
Coriander	Land preparation		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid
Cortanuel	& sowing		water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days
	a sowing		before sowing to protect seeds from ant and other insects.
			- Apply 200-250 kg of FYM ($@$ ½ cart load) in 100 m ² and mix thoroughly to
			improve soil fertility. Seed rate is 100g seeds for 100 m ² .
	T 1		
Spinach (Palak)	Land preparation		- Well drained soil is best for growing spinach beet. Avoid damping off by adding
	& sowing		Captan 50WP in the soil of bed. Spacing may be maintained at $10 \text{cm} \times 20-25 \text{cm}$
			apart. Seed rate is $100-120g/100 \text{ m}^2$. If broadcasting is done, double the dose is
			required.



Onion		Nursery raisir	ıg	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato	ato T tr so			Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water for 20 minutes and dry in shed before planting as preventive measure against soil borne diseases before sowing. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Ginger/ Turm	eric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		formation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Scienc	es			
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All ag	ge groups	• Management	 Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time. Litter must be stirred frequently and aired every day.
Sheep/ Goat	Alla	ge groups	Vaccination	Vaccinate against B.Q./ H.S. this time.
Sheep, Gout	7 111 ug	se groups	• vaccination	 Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Dia	A11 or	ge groups	Coccidial infection	
Pig	-	t the young		• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	ones		• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
			Vaccination	• Vaccinate against FMD.
			• Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle All age groups excepts the young ones			Vaccination	 Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			• Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures
			Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	tion: O	at/ Chinese cab	bage/ Berseum may be grown	•
Fishery:				
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp culture		series/ v-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting.



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

21st November, 2017

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Chandel

Significant past weather for the preceding bi-weekly of Imphal - West (17 th to 20 th November, 2017)	Weather forecast for next five days of Chandel (22 nd to 26 th November, 2017)
Observed fair to mainly cloudy sky during past four days with 5.2 mm rainfall. Maximum temperature range of 24.5 to 28.0 °C and minimum temperature range of 16.7 to 18.6 °C with mean relative humidity 92.3 % max and 64.3 % min was recorded in the past four days.	during morning hours of the next three days. Sky may remain mainly clear. The maximum temp. 26 - 27 $^{\circ}$ C & minimum temp. 13-14 $^{\circ}$ C and

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Name of the crop	Stage	Pest and disease	- Harvest mature crops. Harvested panicles may be stacked for 5-7 days and turned
Rice	Harriagting to post		regularly for better threshing.
Kice	Harvesting to post harvesting		- After proper threshing, grains must be sundried well before storage. Dry grains/
	narvesting		- After proper timesting, grains must be sundried wen before storage. Dry grains/
			seeds to 12-14% moisture if mechanical thresher is used.
			- Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is
	0 1 11		slightly wet.
Rapeseed/ Mustard	Seed collection		- Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
•	and sowing		- Recommended variety – M-27. Seed rate is $10-12 \text{ kg/ha}$.
			- Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then
			sow for the control of white rust and Downey Mildew at seedling stage.
	Seed collection		Land preparation may be done for sowing field pea. Sowing may be done at a
Field Pea	and sowing		spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/
	and sowing		hectare.
			Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relay
Lentil/ Blackgram	Seed collection		crop in the crop fields where the soil moisture is optimum for seed germination.
(late variety)	and sowing		Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade
			then sow it.
			For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying
	Post harvest		of seeds along with charcoal at 80:20. Check for moisture content or weight of
Seeds storage	management		charcoal and dry if required.
U	-		For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops			
Light watering during	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
	(26-30 days old		followed by 46 kg Urea in two splits dose with an interval of 20-40 days of
	seedlings) to early		transplanting.
	vegetative		
Cauliflower	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
Caumiower	(25-30 days old		followed by 50 kg urea in two splits dose with an interval of 20-40 days after
	seedlings) to early		transplanting for main season crops.
	vegetative		transplanting for main season crops.
Coriander	Land preparation		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid
Cortanuel	& sowing		water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days
	a sowing		before sowing to protect seeds from ant and other insects.
			- Apply 200-250 kg of FYM ($@$ ½ cart load) in 100 m ² and mix thoroughly to
			improve soil fertility. Seed rate is 100g seeds for 100 m ² .
	T 1		
Spinach (Palak)	Land preparation		- Well drained soil is best for growing spinach beet. Avoid damping off by adding
	& sowing		Captan 50WP in the soil of bed. Spacing may be maintained at $10 \text{cm} \times 20-25 \text{cm}$
			apart. Seed rate is $100-120g/100 \text{ m}^2$. If broadcasting is done, double the dose is
			required.



Onion		Nursery raisir	ıg	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato	ato T tr so			Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water for 20 minutes and dry in shed before planting as preventive measure against soil borne diseases before sowing. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Ginger/ Turm	eric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		formation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Scienc	es			
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All ag	ge groups	• Management	 Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time. Litter must be stirred frequently and aired every day.
Sheep/ Goat	Alla	ge groups	Vaccination	Vaccinate against B.Q./ H.S. this time.
Sheep, Gout	7 111 ug	se groups	• vaccination	 Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Dia	A11 or	ge groups	Coccidial infection	
Pig	-	t the young		• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	ones		• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
			Vaccination	• Vaccinate against FMD.
			• Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle All age groups excepts the young ones			Vaccination	 Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			• Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures
			Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	tion: O	at/ Chinese cab	bage/ Berseum may be grown	•
Fishery:				
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp culture		series/ v-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting.



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MANIPUR BULLETIN

21st November, 2017

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Churachandpur

Significant past weather for the preceding bi-weekly of Imphal - West (17 th to 20 th November, 2017)	Weather forecast for next five days of Churachandpur (22 nd to 26 th November, 2017)
Observed fair to mainly cloudy sky during past four days with 5.2 mm rainfall. Maximum temperature range of 24.5 to 28.0 °C and minimum temperature range of 16.7 to 18.6 °C with mean relative humidity 92.3 % max and 64.3 % min was recorded in the past four days.	Likely to have no rains upto Sunday and shallow to moderate fog during morning hours of the next three days. Sky may remain mainly clear. The maximum temp. $26 - 27$ °C & minimum temp. $12-13$ °C and relative humidity may reach up to 80% (max RH) & 50 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops			· · · · · · · · · · · · · · · · · · ·
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		 Harvest mature crops. Harvested panicles may be stacked for 5-7 days and turned regularly for better threshing. After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is slightly wet. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety - M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey Mildew at seedling stage.
Field Pea	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relay crop in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			·
Light watering during	norning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at $10 \text{cm} \times 20-25 \text{cm}$ apart. Seed rate is $100-120\text{g}/100 \text{ m}^2$. If broadcasting is done, double the dose is required.



Onion		Nursery raisir	ıg	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato	ato T tr so			Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water for 20 minutes and dry in shed before planting as preventive measure against soil borne diseases before sowing. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Ginger/ Turm	eric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		formation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Scienc	es			
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All ag	ge groups	• Management	 Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time. Litter must be stirred frequently and aired every day.
Sheep/ Goat	Alla	ge groups	Vaccination	Vaccinate against B.Q./ H.S. this time.
Sheep, Gout	7 111 ug	se groups	• vaccination	 Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Dia	A11 or	ge groups	Coccidial infection	
Pig	-	t the young		• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	ones		• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
			Vaccination	• Vaccinate against FMD.
			• Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle All age groups excepts the young ones			Vaccination	 Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			• Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures
			Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	tion: O	at/ Chinese cab	bage/ Berseum may be grown	•
Fishery:				
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp culture		series/ v-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting.



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21st November, 2017

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Imphal East

Significant past weather for the preceding bi-weekly of Imphal - West (17 th to 20 th November, 2017)	Weather forecast for next five days of Imphal East (22 nd to 26 th November, 2017)
Observed fair to mainly cloudy sky during past four days with 5.2 mm rainfall. Maximum temperature range of 24.5 to 28.0 °C and minimum temperature range of 16.7 to 18.6 ° C with mean relative humidity 92.3 % max and 64.3 % min was recorded in the past four days.	Likely to have no rains upto Sunday and shallow to moderate fog during morning hours of the next three days. Sky may remain mainly clear. The maximum temp. $26 - 27$ °C & minimum temp. $12-13$ °C and relative humidity may reach up to 80% (max RH) & 50 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops	Cto an	Dest and discard	A sure moto conclusional administra
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
D'	II		- Harvest mature crops. Harvested panicles may be stacked for 5-7 days and turned
Rice	Harvesting to post		regularly for better threshing.
	harvesting		- After proper threshing, grains must be sundried well before storage. Dry grains/
			seeds to 12-14% moisture if mechanical thresher is used.
			- Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is
			slightly wet.
Rapeseed/ Mustard	Seed collection		- Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
imposeed musture	and sowing		- Recommended variety - M-27. Seed rate is 10-12 kg/ ha.
			- Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then
			sow for the control of white rust and Downey Mildew at seedling stage.
	Seed collection		Land preparation may be done for sowing field pea. Sowing may be done at a
Field Pea			spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/
	and sowing		hectare.
			Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relay
Lentil/ Blackgram	Seed collection		crop in the crop fields where the soil moisture is optimum for seed germination.
(late variety)	and sowing		Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade
(1000 (011005))	and so ming		then sow it.
			For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying
	Post harvest		of seeds along with charcoal at 80:20. Check for moisture content or weight of
Seeds storage	management		charcoal and dry if required.
Steus storage	management		For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% on the walls of stores.
Hantiquiture Chang			Wataunon 1% on the wans of stores.
Horticulture Crops		1.6 (1 1)	1 11 1 1
	-		specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
	(26-30 days old		followed by 46 kg Urea in two splits dose with an interval of 20-40 days of
	seedlings) to early		transplanting.
	vegetative		
Cauliflower	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
	(25-30 days old		followed by 50 kg urea in two splits dose with an interval of 20-40 days after
	seedlings) to early		transplanting for main season crops.
	vegetative		
Coriander	Land preparation		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid
Corrange.	& sowing		water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days
			before sowing to protect seeds from ant and other insects.
			- Apply 200-250 kg of FYM (@ $\frac{1}{2}$ cart load) in 100 m ² and mix thoroughly to
			improve soil fertility. Seed rate is 100g seeds for 100 m ² .
Spinach (Dalala)	Land preparation		- Well drained soil is best for growing spinach beet. Avoid damping off by adding
Spinach (Palak)			Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm
	& sowing		
			apart. Seed rate is $100-120g/100 \text{ m}^2$. If broadcasting is done, double the dose is
			required.



Onion		Nursery raisir	ıg	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato	ato T tr so			Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water for 20 minutes and dry in shed before planting as preventive measure against soil borne diseases before sowing. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Ginger/ Turm	eric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		formation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Scienc	es			
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All ag	ge groups	• Management	 Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time. Litter must be stirred frequently and aired every day.
Sheep/ Goat	Alla	ge groups	Vaccination	Vaccinate against B.Q./ H.S. this time.
Sheep, Gout	7 111 ug	se groups	• vaccination	 Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Dia	A11 or	ge groups	Coccidial infection	
Pig	-	t the young		• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	ones		• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
			Vaccination	• Vaccinate against FMD.
			• Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle All age groups excepts the young ones			Vaccination	 Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			• Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures
			Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	tion: O	at/ Chinese cab	bage/ Berseum may be grown	•
Fishery:				
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp culture		series/ v-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting.



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

21st November, 2017

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Imphal West

Significant past weather for the preceding bi-weekly of Imphal - West (17 th to 20 th November, 2017)	Weather forecast for next five days of Imphal West (22 nd to 26 th November, 2017)
Observed fair to mainly cloudy sky during past four days with 5.2 mm rainfall. Maximum temperature range of 24.5 to 28.0 °C and minimum temperature range of 16.7 to 18.6 °C with mean relative humidity 92.3 % max and 64.3 % min was recorded in the past four days.	Likely to have no rains upto Sunday and shallow to moderate fog during morning hours of the next three days. Sky may remain mainly clear. The maximum temp. $26 - 27$ °C & minimum temp. $12-13$ °C and relative humidity may reach up to 80% (max RH) & 50 % (min RH). The average wind speed may be 2-4 km/hr.

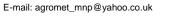
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		 Harvest mature crops. Harvested panicles may be stacked for 5-7 days and turned regularly for better threshing. After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is slightly wet. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey Mildew at seedling stage.
Field Pea	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relay crop in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
	norning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 m ² . If broadcasting is done, double the dose is required.



Onion	Nursery raisir		ıg	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.		
				- check that the new sprouts/ young plants in nursery beds are not damaged.		
Potato	Tuber seed treatment and sowing		treati			Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water for 20 minutes and dry in shed before planting as preventive measure against soil borne diseases before sowing. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Ginger/ Turm	eric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.		
		formation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.		
Animal Scienc	es					
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories		
Poultry (Chicken/ / Duck)	All ag	ge groups	• Management	 Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time. Litter must be stirred frequently and aired every day. 		
Sheep/ Goat	Alla	ge groups	Vaccination	Vaccinate against B.Q./ H.S. this time.		
Sheep, Gout	7 111 ug	se groups	• vaccination	 Lambs should be vaccinated against Enterotoxaemia. 		
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.		
			Shearing for wool	Sheep should be sheared during this month.		
Dia	A11 or	ge groups	Coccidial infection			
Pig	-	t the young		• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.		
	ones		• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.		
			Vaccination	• Vaccinate against FMD.		
			• Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used		
Cattle All age groups excepts the young ones			Vaccination	 Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. 		
			• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.		
			• Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures 		
			Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.		
	tion: O	at/ Chinese cab	bage/ Berseum may be grown	•		
Fishery:						
Type of Farming	Stag	ge	Management	Agro-metrological advisories		
Carp culture	Nurseries/ grow-out		Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.		
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.		
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting.		



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





MANIPUR BULLETIN

21st November, 2017

<u>Senapati</u>

Significant past weather for the preceding bi-weekly of Imphal - West (17 th to 20 th November, 2017)	Weather forecast for next five days of Senapati (22 nd to 26 th November, 2017)
Observed fair to mainly cloudy sky during past four days with 5.2 mm rainfall. Maximum temperature range of 24.5 to 28.0 °C and minimum temperature range of 16.7 to 18.6 °C with mean relative humidity 92.3 % max and 64.3 % min was recorded in the past four days.	during morning hours of the next three days. Sky may remain mainly clear. The maximum temp. 24 - 25 $^{\circ}$ C & minimum temp. 12-13 $^{\circ}$ C and

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		 Harvest mature crops. Harvested panicles may be stacked for 5-7 days and turned regularly for better threshing. After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is slightly wet. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey Mildew at seedling stage.
Field Pea	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relay crop in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
	norning hours is advis	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Onion	Nursery raising		 Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m² area we need ½ kg seeds. check that the new sprouts/ young plants in nursery beds are not damaged.
Ginger/ Turmeric	Rhizome formation	Rhizome rot Soil nutrition management	 Spray Carbendazim @2.5 g/lit of water for rhizome rot. After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.





Name of bird/	Stage	Disease and Management	Agro-meteorological advisories
animal	Stuge	Discuse una management	
Poultry	All age groups	Management	• Protect animals/ birds from sudden drop in temperature. Cover the wall with
Chicken/ /			hessian cloth/ polythene sheet during night time.
Duck)			Litter must be stirred frequently and aired every day.
Sheep/ Goat	All age groups	Vaccination	• Vaccinate against B.Q./ H.S. this time.
			Lambs should be vaccinated against Enterotoxaemia.
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		 Shearing for wool 	• Sheep should be sheared during this month.
Pig	All age groups	 Coccidial infection 	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD.
		Skin disease	• Sprayer of Anti-Psoroptic may be used
	All age groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must be
			advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30m
			for 100 kg body weight.
		 Care & Management 	• Mixture of mineral/ salts should be added in the feed.
			• Avoid the cattle from chiting/biting by Flies
			Adopt tick control measures
		Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	ation: Oat/ Chinese cab	bage/ Berseum may be grown	
Fishery:	Sta an	Managamant	A manufuel a defension
Fype of Farming	Stage	Management	Agro-metrological advisories
Carp	Nurseries/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	grow-out	I ond and water	Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
, arvar e	Brow out		mixing with water.
		Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
			crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
			pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column
			feeder and 30% bottom feeder.
			Sampling of fish for growth, disease should be done regularly by netting.

(I. Meghachandra Singh) Scientist i/c, GKMS



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MANIPUR BULLETIN

21st November, 2017

Tamenglong

Significant past weather for the preceding bi-weekly of Imphal - West (17 th to 20 th November, 2017)	Weather forecast for next five days of Tamenglong (22 nd to 26 th November, 2017)
Observed fair to mainly cloudy sky during past four days with 5.2 mm rainfall. Maximum temperature range of 24.5 to 28.0 °C and minimum temperature range of 16.7 to 18.6 °C with mean relative humidity 92.3 % max and 64.3 % min was recorded in the past four days.	Likely to have no rains upto Sunday and shallow to moderate fog during morning hours of the next three days. Sky may remain mainly clear. The maximum temp. $25 - 26$ °C & minimum temp. $11-12$ °C and relative humidity may reach up to 78% (max RH) & 49 % (min RH). The average wind speed may be 3-4 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Name of the crop	Stage	Pest and disease	- Harvest mature crops. Harvested panicles may be stacked for 5-7 days and turned
Rice	Harriagting to post		regularly for better threshing.
Kice	Harvesting to post harvesting		- After proper threshing, grains must be sundried well before storage. Dry grains/
	narvesting		- After proper timesting, grains must be sundried wen before storage. Dry grains/
			seeds to 12-14% moisture if mechanical thresher is used.
			- Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is
	0 1 11		slightly wet.
Rapeseed/ Mustard	Seed collection		- Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
•	and sowing		- Recommended variety – M-27. Seed rate is $10-12 \text{ kg/ha}$.
			- Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then
			sow for the control of white rust and Downey Mildew at seedling stage.
	Seed collection		Land preparation may be done for sowing field pea. Sowing may be done at a
Field Pea	and sowing		spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/
	and sowing		hectare.
			Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relay
Lentil/ Blackgram	Seed collection		crop in the crop fields where the soil moisture is optimum for seed germination.
(late variety)	and sowing		Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade
			then sow it.
			For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying
	Post harvest		of seeds along with charcoal at 80:20. Check for moisture content or weight of
Seeds storage	management		charcoal and dry if required.
0	-		For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops			
Light watering during	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
	(26-30 days old		followed by 46 kg Urea in two splits dose with an interval of 20-40 days of
	seedlings) to early		transplanting.
	vegetative		
Cauliflower	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
Caumiower	(25-30 days old		followed by 50 kg urea in two splits dose with an interval of 20-40 days after
	seedlings) to early		transplanting for main season crops.
	vegetative		transplanting for main season crops.
Coriander	Land preparation		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid
Cortanuel	& sowing		water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days
	a sowing		before sowing to protect seeds from ant and other insects.
			- Apply 200-250 kg of FYM ($@$ ½ cart load) in 100 m ² and mix thoroughly to
			improve soil fertility. Seed rate is 100g seeds for 100 m ² .
	T 1		
Spinach (Palak)	Land preparation		- Well drained soil is best for growing spinach beet. Avoid damping off by adding
	& sowing		Captan 50WP in the soil of bed. Spacing may be maintained at $10 \text{cm} \times 20-25 \text{cm}$
			apart. Seed rate is $100-120g/100 \text{ m}^2$. If broadcasting is done, double the dose is
			required.



Onion	Nursery raisir		ıg	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.		
				- check that the new sprouts/ young plants in nursery beds are not damaged.		
Potato	Tuber seed treatment and sowing		treati			Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water for 20 minutes and dry in shed before planting as preventive measure against soil borne diseases before sowing. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Ginger/ Turm	eric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.		
		formation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.		
Animal Scienc	es					
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories		
Poultry (Chicken/ / Duck)	All ag	ge groups	• Management	 Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time. Litter must be stirred frequently and aired every day. 		
Sheep/ Goat	Alla	ge groups	Vaccination	Vaccinate against B.Q./ H.S. this time.		
Sheep, Gout	7 111 ug	se groups	• vaccination	 Lambs should be vaccinated against Enterotoxaemia. 		
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.		
			Shearing for wool	Sheep should be sheared during this month.		
Dia	A11 or	ge groups	Coccidial infection			
Pig	-	t the young		• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.		
	ones		• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.		
			Vaccination	• Vaccinate against FMD.		
			• Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used		
Cattle All age groups excepts the young ones			Vaccination	 Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. 		
			• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.		
			• Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures 		
			Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.		
	tion: O	at/ Chinese cab	bage/ Berseum may be grown	•		
Fishery:						
Type of Farming	Stag	ge	Management	Agro-metrological advisories		
Carp culture	Nurseries/ grow-out		Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.		
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.		
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting.		



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MANIPUR BULLETIN

21st November, 2017

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<u>Thoubal</u>

Significant past weather for the preceding bi-weekly of Imphal - West (17 th to 20 th November, 2017)	Weather forecast for next five days of Thoubal (22 nd to 26 th November, 2017)
mm rainfall. Maximum temperature range of 24.5 to 28.0 °C and minimum temperature range of 16.7 to 18.6 °C with mean	Likely to have no rains upto Sunday and shallow to moderate fog during morning hours of the next three days. Sky may remain mainly clear. The maximum temp. 27 - 28 $^{\circ}$ C & minimum temp. 14-15 $^{\circ}$ C and relative humidity may reach up to 81% (max RH) & 51 % (min RH). The average wind speed may be 2 km/hr.

Field Crops Name of the crop	Store	Pest and disease	A gro motoprological advisories
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
D'	TT C C		- Harvest mature crops. Harvested panicles may be stacked for 5-7 days and turned
Rice	Harvesting to post		regularly for better threshing.
	harvesting		- After proper threshing, grains must be sundried well before storage. Dry grains/
			seeds to 12-14% moisture if mechanical thresher is used.
			- Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is
			slightly wet.
Rapeseed/ Mustard	Seed collection		- Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
Tupeseeu, musturu	and sowing		- Recommended variety - M-27. Seed rate is 10-12 kg/ ha.
			- Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then
			sow for the control of white rust and Downey Mildew at seedling stage.
	Seed collection		Land preparation may be done for sowing field pea. Sowing may be done at a
Field Pea			spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/
	and sowing		hectare.
			Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relay
Lentil/ Blackgram	Seed collection		crop in the crop fields where the soil moisture is optimum for seed germination.
(late variety)	and sowing		Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade
	6		then sow it.
			For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying
	Post harvest		of seeds along with charcoal at 80:20. Check for moisture content or weight of
Seeds storage	management		charcoal and dry if required.
Secus storage	management		For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops			Walaunon 170 on the wans of stores.
			specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
	(26-30 days old		followed by 46 kg Urea in two splits dose with an interval of 20-40 days of
	seedlings) to early		transplanting.
	vegetative		
Cauliflower	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
	(25-30 days old		followed by 50 kg urea in two splits dose with an interval of 20-40 days after
	seedlings) to early		transplanting for main season crops.
	vegetative		
Coriander	Land preparation		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid
	& sowing		water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days
			before sowing to protect seeds from ant and other insects.
			- Apply 200-250 kg of FYM (@ $\frac{1}{2}$ cart load) in 100 m ² and mix thoroughly to
			improve soil fertility. Seed rate is 100g seeds for 100 m ² .
Spinach (Palak)	Land preparation		- Well drained soil is best for growing spinach beet. Avoid damping off by adding
Spinacii (1 alak)	& sowing		Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm
	a sowing		apart. Seed rate is $100-120g/100 \text{ m}^2$. If broadcasting is done, double the dose is
			required.



Onion	Nursery raisir		ıg	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.		
				- check that the new sprouts/ young plants in nursery beds are not damaged.		
Potato	Tuber seed treatment and sowing		treati			Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water for 20 minutes and dry in shed before planting as preventive measure against soil borne diseases before sowing. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Ginger/ Turm	eric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.		
		formation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.		
Animal Scienc	es					
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories		
Poultry (Chicken/ / Duck)	All ag	ge groups	• Management	 Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time. Litter must be stirred frequently and aired every day. 		
Sheep/ Goat	Alla	ge groups	Vaccination	Vaccinate against B.Q./ H.S. this time.		
Sheep, Gout	7 111 ug	se groups	• vaccination	 Lambs should be vaccinated against Enterotoxaemia. 		
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.		
			Shearing for wool	Sheep should be sheared during this month.		
Dia	A11 or	ge groups	Coccidial infection			
Pig	-	t the young		• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.		
	ones		• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.		
			Vaccination	• Vaccinate against FMD.		
			• Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used		
Cattle All age groups excepts the young ones			Vaccination	 Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. 		
			• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.		
			• Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures 		
			Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.		
	tion: O	at/ Chinese cab	bage/ Berseum may be grown	•		
Fishery:						
Type of Farming	Stag	ge	Management	Agro-metrological advisories		
Carp culture	Nurseries/ grow-out		Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.		
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.		
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting.		



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

21st November, 2017

E-mail: agromet_mnp@yahoo.co.uk

Ukhrul

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul	
Imphal - West (17 th to 20 th November, 2017)	(22 nd to 26 th November, 2017)	
Observed fair to mainly cloudy sky during past four days with 5.2 mm rainfall. Maximum temperature range of 24.5 to 28.0 °C and minimum temperature range of 16.7 to 18.6 °C with mean relative humidity 92.3 % max and 64.3 % min was recorded in the past four days.	clear. The maximum temp. 24 - 25 °C & minimum temp. 12-13 °C and	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		 Harvest mature crops. Harvested panicles may be stacked for 5-7 days and turned regularly for better threshing. After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is slightly wet. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey Mildew at seedling stage.
Field Pea	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relay crop in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	4	I	
Light watering during r	norning hours is advis	ed for the rabi crops (e	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Onion	Nursery raising		 Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m² area we need ½ kg seeds. check that the new sprouts/ young plants in nursery beds are not damaged.
Ginger/ Turmeric	Rhizome formation	Rhizome rot Soil nutrition management	 Spray Carbendazim @2.5 g/lit of water for rhizome rot. After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.





animal order of the second secon	Animal Science	ces		
(Chicken / Jouch hessian cloth/ polythene sheet during night time. Duck) • Uater must be stirred frequently and aired every day. Sheep/ Goat All age groups • Vaccination • Vaccinate agains B.Q./ H.S. this time. • De-worming • Administer Tolzan-F @ 2.5ml orally' 50kg b.wt. • De-worming • Administer Tolzan-F @ 2.5ml orally' 50kg b.wt. Fig All age groups except the young ons • Coccidial infection • Ofloxacine/ Omidazole (O_2) tab twice daily for 5 days. • De-worming • De-worm with Albendazole @7.5 mg/kg b.wt. • Vaccinate against FMD. • Oaccination • Vaccinate against B.Q. FMD. & H.S.if not yet vaccinated. • Skin disease • Sprayer of Anti-Psoroptic may be used Cattle • Vaccination • Vaccinate against B.Q. FMD. & H.S.if not yet vaccinated. • Care & Management • Oacenarie • Oacenarie • Deworming • De-worm with Albomac suspension@60-90nl for 300kg body weight or 20-30ml for 100 kg body weight. • Care & Management • Oace act are must be animals. • Deworming • De-worm with Albomac suspension@60-90nl for 300kg body weight or 20-30ml for 100 kg body weight. • Care & Management • Margue at the form chining/shing by Flies •	Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Sheep/ Goat All age groups • Vaccination • Vaccinate against B.Q./ H.S. this time. • De-worming • Administer Tolzan-F @ 2.5ml cally/ 50kg b. wt. • De-worming • Administer Tolzan-F @ 2.5ml cally/ 50kg b. wt. Pig • All age groups except the young ones • Occidial infection • Ofloxacine/ Ornidazole (0.2) tab twice daily for 5 days. • All age groups except the young ones • Vaccination • Vaccinate against FMD. • Vaccination • Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. • Cattle • Vaccination • Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. • Vaccination • Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. • Cases of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. • Deworming • Deworm with Albonacs uspension @60-90ml for 300kg body weight or 20-30ml for 100 kg body weight. • Care & Management • Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/bing by Files • Adopt tick control measures • Mastitis • Adequate care must be ensured for prevention of mastitis for the milch animals. • Folder cultivation: Oat/ Chinese cabbage/ Berseum may be grown. <td< td=""><td>Poultry (Chicken//</td><td>All age groups</td><td>Management</td><td>hessian cloth/ polythene sheet during night time.</td></td<>	Poultry (Chicken//	All age groups	Management	hessian cloth/ polythene sheet during night time.
 Lambs should be vaccinated against Enterotoxaemia. De-worming Administer Tolzan-F @5ml orally/ 50kg b. wt. Shearing for wool Deworming De-worn with Albendazole (0.5) this for the walch for for onsultant must be advocated to safe the animals. Deworn with Albendazole (0.5) this f		All aga groups	• Vaccination	
• De-worming • Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. • Shearing for wool • Sheep should be sheared during this month. Pig All age groups except the young ones • Coccidial infection • Ofloxacine/ Ornidazole (0 ₂) tab twice daily for 5 days. • De-worm with Albendazole @7.5 mg/kg b.wt. • De-worm with Albendazole @7.5 mg/kg b.wt. • Vaccination • Vaccinate against FMD. • Skin disease • Sprayer of Anti-Psoroptic may be used • Vaccination • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Casses of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight. • Care & Management • Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/biting by Flies • Fodder cultivation: Oat/ Chinese cabaage/ Berseum may be grown. • Adequate care must be ensured for prevention of mastitis for the milch animals. • Fodder cultivation: • Stage Management Agro-metrological advisories Farming Carp Pond and water Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime @ 2.5 % body weight p	Sheep/ Goat	All age groups	• Vaccination	
Pig All age groups except the young ones Coccidial infection Offoxacine/ Ornidazole (O₂) tab twice daily for 5 days. De-worming De-worm with Albendazole @7.5 mg/kg b.wt. Cattle All age groups excepts the young ones Skin disease Sprayer of Anti-<i>Psorptic</i> may be used Vaccination Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight. Care & Management Mixture of mineral/ safts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures Mastitis Adequate care must be ensured for prevention of mastitis for the milch animals. 			De-worming	
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Cattle excepts the young ones • Cases of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. • Deworm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight. • Deworming • Deworm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight. • Care & Management • Mixture of mineral/ salts should be added in the feed. • Adopt tick control measures • Adopt tick control measures • Mastitis • Adequate care must be ensured for prevention of mastitis for the milch animals. • Fodder cultivation: Oat/ Chinese cabbage/ Berseum may be grown. • Management Fishery: Type of Farming Carp Nurseries/ grow-out Pond and water Feed Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein for tiffed with vitamins and mineral. Fish For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
for 100 kg body weight. for 100 kg body weight. • Care & Management • Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/biting by Flies • Adopt tick control measures • Adopt tick control measures • Adequate care must be ensured for prevention of mastitis for the milch animals. • Fodder cultivation: Oat/ Chinese cabbage/ Berseum may be grown. • Adequate care must be ensured for prevention of mastitis for the milch animals. • Fodder cultivation: Oat/ Chinese cabbage/ Berseum may be grown. • Adequate care must be ensured for prevention of mastitis for the milch animals. • Fodder cultivation: Oat/ Chinese cabbage/ Berseum may be grown. • Adequate care must be ensured for prevention of mastitis for the milch animals. • Fodder cultivation: Oat/ Chinese cabbage/ Berseum may be grown. • Adequate care must be ensured for prevention of mastitis for the milch animals. • Forming • Management Agro-metrological advisories Garp • Pond and water Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water. • Feed Feed Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Fish For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking rati	Cattle	excepts the young	Vaccination	 Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be
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			Fish	pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
	* Partial/ total	harvesting of fish sh	ould be done	Sumpring of their for growth, discuss should be done regularly by neutring.

(I. Meghachandra Singh) Scientist i/c, GKMS