

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

20th April, 2018

Bishnupur

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 21st to 25th April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 19th April, 2018)

Observed **4.8 mm** rainfall with **overcast sky** but **partly cloudy to mainly cloudy** during morning hours 17th and afternoon hours of 18th April. Maximum temperature recorded ranged from **26.9** to **28.1** °C and minimum of **15.5** to **17.2** °C with mean relative humidity **92.3** % max and **63.3** % min was recorded in the past three days.

Weather forecast for next five days of Bishnupur (21st to 25th April, 2018)

Likely to have scattered rainfall with thunderstorm and gusty winds during next five days and mainly cloudy to overcast sky with maximum temp. 28-29 °C & minimum temp. 16-17 °C. Relative humidity may reach up to 100 % (max RH) & 56 % (min RH). The average wind speed may be 0-2 km/hr.

* Harvest rain water.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Name of the crop	Stage	1 est and disease	- Maintained optimum water depth of 5-8cm in the field.
Pre-kharif Rice	Tillering		- One or two hand weeding may be done after 20-30 days of transplanting. Drain out excess water and top dress with Urea @33kg /ha and MOP @22kg/ha.
			Irrigate again after 48 hours of fertilizer application.
Maize	For Rabi Maize Vegetative to flowering & silking		 Drainage may be constructed well to avoid water logging in and around the crop field. Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
Waize	Kharif maize Land preparation and seed collection		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. Procure disease free quality seeds from reliable source.
Soybean/			- Collect good quality seeds from reliable source for sowing.
Groundnut/	Seed collection to		- Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may
Blackgram/	Land preparation		be started.
Redgram			- Apply 10-13 t/ ha or 2.5-3 t/ sangam of FYM or compost by mixing
			thoroughly in the soil 1-2 weeks before sowing.
			For seed purpose store the seeds in RC-Seed Bin after proper drying and
	Post harvest		cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for
Seeds storage	management		moisture content or weight of charcoal and dry if required.
<u> </u>			For grains, store grains in well ventilated godowns after drying proper. Sprag
			Malathion 1% on the walls of stores.
Horticulture Crops			
** Drainage may be con	nstructed well to avoid	d water logging in and a	round the crop field.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Ginger & turmeric	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row
Ginger & turmeric	1 mining		and turmeric (25cm plant to plant and 40-45cm row to row).
Cucurbits	Transplanting to	Mite	To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre o
Cucuibits	vegetative	1,110	water.
	regetative	Red Pumpkin	If Red Pumpkin Beetle infestation is observed, Carbaryl (0.2%) of
		Beetle	Chloropyriphos (0.05%) may be sprayed or use Methyl Euginol as trap @ 4-1
			traps/ sangam.
Onion	Bulb maturity	Thrips/ leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit o
			water to the crop during bulb formation stage.
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic
			measure against Bulb rot in the crops grown in shed.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.
Tomato	Fruiting	Fruit borer	- Spray Sixer @ 2 gm/ litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water. After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black



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			- Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
Animal Science	ees		
		ls to protect from strong win estock/ poultry (surrounding	ds and rains. g area of 3ft width) using the repellent agent/ insecticides spray.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease	• Strongly advise to Vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		Coccidiosis	Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination	If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. BDD immunication must be done during the month.
		Management	 PPR immunization must be done once in every three years. Fly repellant must be used in the premises of the sheds.
D'.	A 11		
Pig	All age groups except the young ones	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		Vaccination	Vaccinate against FMD and Swine Fever.
		 Skin disease 	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.
_	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
			• Adequate care must be ensured for protecting from untimely strong rain/wind

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

- * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
. 0	Feed		Well balanced feed may be fed @ 3-5% body weight/day.



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

20th April, 2018

Chandel

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Significant past weather for the preceding bi-weekly of Imphal - West (17th to 19th April, 2018)

Fruiting

Tomato

Fruit borer

Observed **4.8 mm** rainfall with **overcast sky** but **partly cloudy to mainly cloudy** during morning hours 17th and afternoon hours of 18th April. Maximum temperature recorded ranged from **26.9** to **28.1** °C and minimum of **15.5** to **17.2** °C with mean relative humidity **92.3** % max and **63.3** % min was recorded in the past three days.

Weather forecast for next five days of Chandel (21st to 25th April, 2018)

Likely to have scattered rainfall with thunderstorm and gusty winds during next five days and mainly cloudy to overcast sky with maximum temp. 26-27 °C & minimum temp. 16-17 °C. Relative humidity may reach up to 89 % (max RH) & 46 % (min RH). The average wind speed may be 3-4 km/hr.

- Spray Sixer @ 2 gm/ litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of

water. After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black

recorded in the past	unce days.		
Field Crops			
* Harvest rain water.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering	T COV MING GLOCALD	- Maintained optimum water depth of 5-8cm in the field One or two hand weeding may be done after 20-30 days of transplanting. Drain out excess water and top dress with Urea @33kg /ha and MOP @22kg/ha. Irrigate again after 48 hours of fertilizer application.
Maize	For Rabi Maize Vegetative to flowering & silking		 Drainage may be constructed well to avoid water logging in and around the crop field. Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
Watze	Kharif maize Land preparation and seed collection		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. Procure disease free quality seeds from reliable source.
Soybean/ Groundnut/ Blackgram/ Redgram	Seed collection to Land preparation		 Collect good quality seeds from reliable source for sowing. Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started. Apply 10–13 t/ ha or 2.5–3 t/ sangam of FYM or compost by mixing thoroughly in the soil 1-2 weeks before sowing.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. 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			,
** Drainage may be con	nstructed well to avoid	l water logging in and a	round the crop field.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Ginger & turmeric	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).
Cucurbits	Transplanting to vegetative	Mite	To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
		Red Pumpkin Beetle	If Red Pumpkin Beetle infestation is observed, Carbaryl (0.2%) or Chloropyriphos (0.05%) may be sprayed or use Methyl Euginol as trap @ 4-10 traps/ sangam.
Onion	Bulb maturity	Thrips/ leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.
	E	E 2.1	



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			- Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
Animal Science	ees		
		ls to protect from strong win estock/ poultry (surrounding	ds and rains. g area of 3ft width) using the repellent agent/ insecticides spray.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease	• Strongly advise to Vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		Coccidiosis	Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination	If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. BDD immunication must be done during the month.
		Management	 PPR immunization must be done once in every three years. Fly repellant must be used in the premises of the sheds.
D'.	A 11		
Pig	All age groups except the young ones	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		Vaccination	Vaccinate against FMD and Swine Fever.
		 Skin disease 	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.
_	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
			• Adequate care must be ensured for protecting from untimely strong rain/wind

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

- * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
. 0	Feed		Well balanced feed may be fed @ 3-5% body weight/day.



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Churachandpur

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Weather forecast for next five days of Churachandpur (21st to 25th April, 2018)

Likely to have scattered rainfall with thunderstorm and gusty winds during next five days and mainly cloudy to overcast sky with maximum temp. 27-28 °C & minimum temp. 16 °C. Relative humidity may reach up to 100 % (max RH) & 60 % (min RH). The average wind speed may be 2 km/hr.

water. After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black

Field Crops			
* Harvest rain water.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
			- Maintained optimum water depth of 5-8cm in the field.
Pre-kharif Rice	Tillering		- One or two hand weeding may be done after 20-30 days of transplanting. Drain
			out excess water and top dress with Urea @33kg/ha and MOP @22kg/ha.
			Irrigate again after 48 hours of fertilizer application. - Drainage may be constructed well to avoid water logging in and around the
	For Rabi Maize		crop field.
	Vegetative to		- Construct wind breaks to avoid uprooting of standing crops by the high speed
	flowering & silking		winds.
Maize			Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg
	Kharif maize		of DAP and 30 kg of MOP as a basal application during final ploughing or at the
	Land preparation and seed collection		time of sowing.
	ana seca concentra		Procure disease free quality seeds from reliable source.
Soybean/			- Collect good quality seeds from reliable source for sowing.
Groundnut/	Seed collection to		- Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may
Blackgram/	Land preparation		be started.
Redgram			- Apply 10-13 t/ ha or 2.5-3 t/ sangam of FYM or compost by mixing
			thoroughly in the soil 1-2 weeks before sowing.
	D4 14		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and
Coods stores	Post harvest management		cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Seeds storage			For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops	l.	<u> </u>	Manufacture water of blocks.
** Drainage may be con	nstructed well to avoid	d water logging in and a	around the crop field.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Ginger & turmeric	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row)
			and turmeric (25cm plant to plant and 40-45cm row to row).
Cucurbits	Transplanting to	Mite	To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of
	vegetative		water.
		Red Pumpkin	If Red Pumpkin Beetle infestation is observed, Carbaryl (0.2%) or
		Beetle	Chloropyriphos (0.05%) may be sprayed or use Methyl Euginol as trap @ 4-10
			traps/ sangam.
Onion	Bulb maturity	Thrips/ leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of
		Death and	water to the crop during bulb formation stage.
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.
Colocasia	Land preparation		- Prepare land for planting colocasia.
Colocasia	for planting		- 1 repare tand for pranting colocasia.
Tomato	Fruiting	Fruit borer	- Spray Sixer @ 2 gm/ litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of
LUMBEU	110101115	11010 00101	Spray Start & Zgin into of water of Rahiwata (Biopeneral) & 1.5 Zgin into of



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			- Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
Animal Science	ees		
		ls to protect from strong win estock/ poultry (surrounding	ds and rains. g area of 3ft width) using the repellent agent/ insecticides spray.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease	• Strongly advise to Vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		Coccidiosis	Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination	If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. BDD immunication must be done during the month.
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Pig	All age groups except the young ones	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		Vaccination	Vaccinate against FMD and Swine Fever.
		 Skin disease 	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.
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		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
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- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
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Fruiting

Tomato

Fruit borer

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Weather forecast for next five days of Imphal East (21st to 25th April, 2018)

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-	•		
Field Crops			
* Harvest rain water.			
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Soybean/ Groundnut/ Blackgram/ Redgram	Seed collection to Land preparation		 Collect good quality seeds from reliable source for sowing. Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started. Apply 10–13 t/ ha or 2.5–3 t/ sangam of FYM or compost by mixing thoroughly in the soil 1-2 weeks before sowing.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. 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.
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** Drainage may be con	nstructed well to avoid	d water logging in and a	round the crop field.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Ginger & turmeric	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).
Cucurbits	Transplanting to vegetative	Mite	To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
		Red Pumpkin Beetle	If Red Pumpkin Beetle infestation is observed, Carbaryl (0.2%) or Chloropyriphos (0.05%) may be sprayed or use Methyl Euginol as trap @ 4-10 traps/ sangam.
Onion	Bulb maturity	Thrips/ leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.
	T =		



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			- Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
Animal Science	ees		
		ls to protect from strong win estock/ poultry (surrounding	ds and rains. g area of 3ft width) using the repellent agent/ insecticides spray.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease	• Strongly advise to Vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		Coccidiosis	Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination	If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. BDD immunication must be done during the month.
		Management	 PPR immunization must be done once in every three years. Fly repellant must be used in the premises of the sheds.
D'.	A 11		
Pig	All age groups except the young ones	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		Vaccination	Vaccinate against FMD and Swine Fever.
		 Skin disease 	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.
_	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
			• Adequate care must be ensured for protecting from untimely strong rain/wind

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

- * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
. 0	Feed		Well balanced feed may be fed @ 3-5% body weight/day.



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

20th April, 2018

Imphal West

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 21st to 25th April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 19th April, 2018)

Observed **4.8 mm** rainfall with **overcast sky** but **partly cloudy to mainly cloudy** during morning hours 17th and afternoon hours of 18th April. Maximum temperature recorded ranged from **26.9** to **28.1** °C and minimum of **15.5** to **17.2** °C with mean relative humidity **92.3** % max and **63.3** % min was recorded in the past three days.

Weather forecast for next five days of Imphal West (21st to 25th April, 2018)

Likely to have scattered rainfall with thunderstorm and gusty winds during next five days and mainly cloudy to overcast sky with maximum temp. 27-29 °C & minimum temp. 16 °C. Relative humidity may reach up to 100 % (max RH) & 64 % (min RH). The average wind speed may be 0-3 km/hr.

water. After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black

Field Crops			
* Harvest rain water.	1	T	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		- Maintained optimum water depth of 5-8cm in the field One or two hand weeding may be done after 20-30 days of transplanting. Drain out excess water and top dress with Urea @33kg /ha and MOP @22kg/ha. Irrigate again after 48 hours of fertilizer application.
Maize	For Rabi Maize Vegetative to flowering & silking		 Drainage may be constructed well to avoid water logging in and around the crop field. Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
Waize	Kharif maize Land preparation and seed collection		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. Procure disease free quality seeds from reliable source.
Soybean/ Groundnut/ Blackgram/ Redgram	Seed collection to Land preparation		 Collect good quality seeds from reliable source for sowing. Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started. Apply 10–13 t/ ha or 2.5–3 t/ sangam of FYM or compost by mixing thoroughly in the soil 1-2 weeks before sowing.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. 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	•		
** Drainage may be con	nstructed well to avoic	d water logging in and a	round the crop field.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Ginger & turmeric	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).
Cucurbits	Transplanting to vegetative	Mite Red Pumpkin Beetle	To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water. If Red Pumpkin Beetle infestation is observed, Carbaryl (0.2%) or Chloropyriphos (0.05%) may be sprayed or use Methyl Euginol as trap @ 4-10 traps/ sangam.
Onion	Bulb maturity	Thrips/ leaf minor Bulb rot	 Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage. Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic
Colocasia	Land preparation for planting		measure against Bulb rot in the crops grown in shed. - Prepare land for planting colocasia.
Tomato	Fruiting	Fruit borer	- Spray Sixer @ 2 gm/ litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of



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			- Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
Animal Science	ees		
		ls to protect from strong win estock/ poultry (surrounding	ds and rains. g area of 3ft width) using the repellent agent/ insecticides spray.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease	• Strongly advise to Vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		Coccidiosis	Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat All age group	All age groups	Vaccination	If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. BDD immunication must be done during the month.
		Management	 PPR immunization must be done once in every three years. Fly repellant must be used in the premises of the sheds.
D'.	A 11		
Pig	All age groups except the young ones	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		Vaccination	Vaccinate against FMD and Swine Fever.
	ones	 Skin disease 	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.
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
			• Adequate care must be ensured for protecting from untimely strong rain/wind

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

- * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
. 0	Feed		Well balanced feed may be fed @ 3-5% body weight/day.



Poultry

Duck)

(Chicken/

All age groups

• Ranikhet disease

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

20th April, 2018

Senapati

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 21st to 25th April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 19th April, 2018)

Observed **4.8 mm** rainfall with **overcast sky** but **partly cloudy to mainly cloudy** during morning hours 17th and afternoon hours of 18th April. Maximum temperature recorded ranged from **26.9** to **28.1** °C and minimum of **15.5** to **17.2** °C with mean relative humidity **92.3** % max and **63.3** % min was recorded in the past three days.

Weather forecast for next five days of Senapati (21st to 25th April, 2018)

Likely to have scattered rainfall with thunderstorm and gusty winds during next five days and mainly cloudy to overcast sky with maximum temp. 25 °C & minimum temp. 14-15 °C. Relative humidity may reach up to 99 % (max RH) & 54 % (min RH). The average wind speed may be 2-4 km/hr.

• Strongly advise to Vaccinate against Ranikhet disease. Vaccinate the flock

21 days and through nasal route if it is older than 21 days.

using Lasota strain vaccine through ocular route if the age of chick is less than

Stage	Pest and disease	
Stage	Pest and disease	
	- cot una anotabe	Agro-meteorological advisories
illering		- Maintained optimum water depth of 5-8cm in the field One or two hand weeding may be done after 20-30 days of transplanting. Drain out excess water and top dress with Urea @33kg /ha and MOP @22kg/ha. Irrigate again after 48 hours of fertilizer application.
For Rabi Maize Tegetative to owering & silking		 Drainage may be constructed well to avoid water logging in and around the crop field. Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
Tharif maize and preparation nd seed collection		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. Procure disease free quality seeds from reliable source.
eed collection to and preparation		 Collect good quality seeds from reliable source for sowing. Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started. Apply 10–13 t/ ha or 2.5–3 t/ sangam of FYM or compost by mixing thoroughly in the soil 1-2 weeks before sowing.
ost harvest nanagement		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. 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.
ucted well to avoid	l water logging in and a	round the crop field.
Stage	Pest and disease	Agro-meteorological advisories
lowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
lanting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).
ransplanting to egetative	Mite	To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
	Red Pumpkin Beetle	If Red Pumpkin Beetle infestation is observed, Carbaryl (0.2%) or Chloropyriphos (0.05%) may be sprayed or use Methyl Euginol as trap @ 4-10 traps/ sangam.
and preparation or planting		- Prepare land for planting colocasia.
	-	
		s and rains. area of 3ft width) using the repellent agent/insecticides spray.
tage	Disease and	Agro-meteorological advisories
la Tre	Stage owering anting ansplanting to getative and preparation r planting and animals to press of all livestock	powering Fruit fly/ beetle anting ansplanting to getative Red Pumpkin Beetle Ind preparation replanting and animals to protect from strong wind ges of all livestock/ poultry (surrounding)



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		 Coccidiosis 	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination	 If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. PPR immunization must be done once in every three years.
		Management	• Fly repellant must be used in the premises of the sheds.
Pig	All age groups	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.
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 Adequate care must be ensured for protecting from untimely strong rain/wind

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

- * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.

 * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days
			should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.
			Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3
			splits.
Paddy cum	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40%
fish culture			of the rice field can be converted into trenches/ditch/channels for paddy cum fish
			culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
(18 - 19)	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

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



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

20th April, 2018

Tamenglong

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 21st to 25th April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 19th April, 2018)

Observed **4.8 mm** rainfall with **overcast sky** but **partly cloudy to mainly cloudy** during morning hours 17th and afternoon hours of 18th April. Maximum temperature recorded ranged from **26.9** to **28.1** °C and minimum of **15.5** to **17.2** °C with mean relative humidity **92.3** % max and **63.3** % min was recorded in the past three days.

Weather forecast for next five days of Tamenglong (21st to 25th April, 2018)

Likely to have scattered rainfall with thunderstorm and gusty winds during next five days and mainly cloudy to overcast sky with maximum temp. 26-27 °C & minimum temp. 15-16 °C. Relative humidity may reach up to 99 % (max RH) & 57 % (min RH). The average wind speed may be 2-3 km/hr.

water. After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black

Field Crops			
* Harvest rain water.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
			- Maintained optimum water depth of 5-8cm in the field.
Pre-kharif Rice	Tillering		- One or two hand weeding may be done after 20-30 days of transplanting. Drain
			out excess water and top dress with Urea @33kg/ha and MOP @22kg/ha.
			Irrigate again after 48 hours of fertilizer application. - Drainage may be constructed well to avoid water logging in and around the
	For Rabi Maize		crop field.
	Vegetative to		- Construct wind breaks to avoid uprooting of standing crops by the high speed
	flowering & silking		winds.
Maize			Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg
	Kharif maize		of DAP and 30 kg of MOP as a basal application during final ploughing or at the
	Land preparation and seed collection		time of sowing.
	ana seca concentra		Procure disease free quality seeds from reliable source.
Soybean/			- Collect good quality seeds from reliable source for sowing.
Groundnut/	Seed collection to		- Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may
Blackgram/	Land preparation		be started.
Redgram			- Apply 10-13 t/ ha or 2.5-3 t/ sangam of FYM or compost by mixing
			thoroughly in the soil 1-2 weeks before sowing.
	D4 14		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and
Coods stores	Post harvest management		cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Seeds storage			For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops	l.	<u> </u>	Manufacture water of blocks.
** Drainage may be con	nstructed well to avoid	d water logging in and a	around the crop field.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Ginger & turmeric	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row)
			and turmeric (25cm plant to plant and 40-45cm row to row).
Cucurbits	Transplanting to	Mite	To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of
	vegetative		water.
		Red Pumpkin	If Red Pumpkin Beetle infestation is observed, Carbaryl (0.2%) or
		Beetle	Chloropyriphos (0.05%) may be sprayed or use Methyl Euginol as trap @ 4-10
			traps/ sangam.
Onion	Bulb maturity	Thrips/ leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of
		Death and	water to the crop during bulb formation stage.
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.
Colocasia	Land preparation		- Prepare land for planting colocasia.
Colocasia	for planting		- 1 repare tand for pranting colocasia.
Tomato	Fruiting	Fruit borer	- Spray Sixer @ 2 gm/ litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of
LUMBEU	110101115	11010 00101	Spray Start & Zgill into of water of Rahiwata (Biopeneracy & 1.5 Zgill into of

• Adequate care must be ensured for protecting from untimely strong rain/wind



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



			- Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
Animal Science	ees	<u>.</u>	
* Repair the she	eds of birds and anima	ls to protect from strong win	nds and rains.
* Disinfect the f	farm premises of all liv	estock/ poultry (surrounding	g area of 3ft width) using the repellent agent/insecticides spray.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease	• Strongly advise to Vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		 Coccidiosis 	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination	 If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. PPR immunization must be done once in every three years.
		Management	• Fly repellant must be used in the premises of the sheds.
Pig	All age groups	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.
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

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

- * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
. 0	Feed		Well balanced feed may be fed @ 3-5% body weight/day.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

20th April, 2018

Thoubal

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 21st to 25th April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 19th April, 2018)

Observed **4.8 mm** rainfall with **overcast sky** but **partly cloudy to mainly cloudy** during morning hours 17th and afternoon hours of 18th April. Maximum temperature recorded ranged from **26.9** to **28.1** °C and minimum of **15.5** to **17.2** °C with mean relative humidity **92.3** % max and **63.3** % min was recorded in the past three days.

Weather forecast for next five days of Thoubal (21st to 25th April, 2018)

Likely to have scattered rainfall with thunderstorm and gusty winds during next five days and mainly cloudy to overcast sky with maximum temp. 28-29 °C & minimum temp. 16-17 °C. Relative humidity may reach up to 100 % (max RH) & 47 % (min RH). The average wind speed may be 2-4 km/hr.

water. After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black

Field Crops			
* Harvest rain water.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		 Maintained optimum water depth of 5-8cm in the field. One or two hand weeding may be done after 20-30 days of transplanting. Drain out excess water and top dress with Urea @33kg /ha and MOP @22kg/ha. Irrigate again after 48 hours of fertilizer application.
	For Rabi Maize Vegetative to flowering & silking		 Drainage may be constructed well to avoid water logging in and around the crop field. Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
Maize	Kharif maize Land preparation and seed collection		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. Procure disease free quality seeds from reliable source.
Soybean/ Groundnut/ Blackgram/ Redgram	Seed collection to Land preparation		 Collect good quality seeds from reliable source for sowing. Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started. Apply 10–13 t/ ha or 2.5–3 t/ sangam of FYM or compost by mixing thoroughly in the soil 1-2 weeks before sowing.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. 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	•	•	
** Drainage may be cor	nstructed well to avoid	d water logging in and a	round the crop field.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Ginger & turmeric	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).
Cucurbits	Transplanting to vegetative	Mite	To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
		Red Pumpkin Beetle	If Red Pumpkin Beetle infestation is observed, Carbaryl (0.2%) or Chloropyriphos (0.05%) may be sprayed or use Methyl Euginol as trap @ 4-10 traps/ sangam.
Onion	Bulb maturity	Thrips/ leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.
Tomato	Fruiting	Fruit borer	- Spray Sixer @ 2 gm/ litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of

• Adequate care must be ensured for protecting from untimely strong rain/wind



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



			- Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
Animal Science	ees	<u>.</u>	
* Repair the she	eds of birds and anima	ls to protect from strong win	nds and rains.
* Disinfect the f	farm premises of all liv	estock/ poultry (surrounding	g area of 3ft width) using the repellent agent/insecticides spray.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease	• Strongly advise to Vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		 Coccidiosis 	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination	 If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. PPR immunization must be done once in every three years.
		Management	• Fly repellant must be used in the premises of the sheds.
Pig	All age groups	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.
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

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

- * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
. 0	Feed		Well balanced feed may be fed @ 3-5% body weight/day.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

20th April, 2018

Ukhrul

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 21st to 25th April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(17^{th} \text{ to } 19^{th} \text{ April}, 2018)$

Observed **4.8 mm** rainfall with **overcast sky** but **partly cloudy to mainly cloudy** during morning hours 17^{th} and afternoon hours of 18^{th} April. Maximum temperature recorded ranged from **26.9** to **28.1** °C and minimum of **15.5** to **17.2** °C with mean relative humidity **92.3** % max and **63.3** % min was recorded in the past three days.

Weather forecast for next five days of Ukhrul (21st to 25th April, 2018)

Likely to have scattered rainfall with thunderstorm and gusty winds during next five days and mainly cloudy to overcast sky with maximum temp. 26-27 °C & minimum temp. 15-16 °C. Relative humidity may reach up to 90 % (max RH) & 46 % (min RH). The average wind speed may be 3-4 km/hr.

* Harvest rain water.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Traine of the crop	Stuge	1 cst ara arsease	- Maintained optimum water depth of 5-8cm in the field.
			- One or two hand weeding may be done after 20-30 days of transplanting. Drain
Pre-kharif Rice	Tillering		out excess water and top dress with Urea @33kg /ha and MOP @22kg/ha.
			Irrigate again after 48 hours of fertilizer application.
	For Rabi Maize		- Drainage may be constructed well to avoid water logging in and around the
			crop field.
	Vegetative to		- Construct wind breaks to avoid uprooting of standing crops by the high speed
3.6.1	flowering & silking		winds.
Maize	Kharif maize		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg
			of DAP and 30 kg of MOP as a basal application during final ploughing or at the
	Land preparation and seed collection		time of sowing.
	ana seea conection		Procure disease free quality seeds from reliable source.
Soybean/			- Collect good quality seeds from reliable source for sowing.
Groundnut/	Seed collection to		- Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may
Blackgram/	Land preparation		be started.
Redgram			- Apply 10-13 t/ ha or 2.5-3 t/ sangam of FYM or compost by mixing
			thoroughly in the soil 1-2 weeks before sowing.
			For seed purpose store the seeds in RC-Seed Bin after proper drying and
	Post harvest		cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for
Seeds storage	management		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			
** Drainage may be co	nstructed well to avoi	d water logging in and a	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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Ginger & turmeric	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row)
8			and turmeric (25cm plant to plant and 40-45cm row to row).
Cucurbits	Transplanting to	Mite	To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of
Cacarons	vegetative		water.
		Red Pumpkin	If Red Pumpkin Beetle infestation is observed, Carbaryl (0.2%) or
		Beetle	Chloropyriphos (0.05%) may be sprayed or use Methyl Euginol as trap @ 4-10
			traps/ sangam.
Colocasia	Land preparation		- Prepare land for planting colocasia.
	for planting		
Animal Sciences			
* Repair the sheds of b	irds and animals to p	rotect from strong wind	ds and rains.
			area of 3ft width) using the repellent agent/insecticides spray.
Name of bird/	Stage	Disease and	Agro-meteorological advisories
onimal	S	Managament	

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Name of bird/	Stage	Disease and	Agro-meteorological advisories		
animal		Management			
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Duck)			21 days and through nasal route if it is older than 21 days.		



Manipur Centre, Lamphelpat, Imphal - 795 004





		 Coccidiosis 	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
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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.
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fish culture			of the rice field can be converted into trenches/ditch/channels for paddy cum fish
			culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

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