

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

13th 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 14th to 18th April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th April, 2018)

Observed **14.5 mm** rainfall with **mainly cloudy to overcast sky** during past three days. Maximum temperature recorded ranged from **26.0** to **27.7** °C and minimum of **14.6** to **16.2** °C with mean relative humidity **88.3** % max and **55.3** % min was recorded in the past three days.

Weather forecast for next five days of Bishnupur (14th to 18th April, 2018)

Likely to have scattered to fairly widespread thundery showers with squall during next five days and partly cloudy to overcast sky with maximum temp. 28 °C & minimum temp. 17-18 °C. Relative humidity may reach up to 98 % (max RH) & 50 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops * Harvest rain water			
Name of the crop		Pest and disease	A and motorpological admission
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories - Drainage and bunds may be constructed well for maintaining water level in the
Pre-kharif Rice	Vegetative		crop field. Drain out excess rain water if accumulated in the field. - Water depth may be maintained at 5-8 cm.
Rabi Maize	Vegetative to pre- flowering		- Drainage may be constructed well to avoid water logging in and around the crop field.
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			
		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.
Passion fruit	Planting		It is right time for collection of terminal cuttings (pencil thickness) for passion fruit. Dip the cuttings in 500 ppm IBA (IBA 100 mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with soil, sand & FYM in the ratio 2:1:1 in slanting position.
Khasi Mandarin	For grown up		For grown up Khasi Mandarin, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Kachai Lemon	For grown up		For grown up Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Cucurbits	Transplanting to vegetative		- Construct proper drainage system to avoid water logging in and around the crop field. Drain out excess 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.
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 dog against borer @ 0.75ml/litre of water.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.



fish culture

Pond and water

Fish

Feed

Cat fish

(Ngakra)

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Animal Science	ees		
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.
		Management	 Use polythene sheet/plastic for wall to protect from storm/rain. Use electrolyte to protect from dehydration. Give Vitamin C in drinking water
Sheep/ Goat	All age groups	 Vaccination 	Enterotoxaemia and Sheep Pox should be protected by vaccination.
		Management	 Fly repellant must be used in the premises of the sheds Insecticides
Pig	All age groups	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against Swine Fever.
	ones	Management	Keep the sty dry Give electrolyte salts in feed.
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		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.
			 Adequate care must be ensured for protecting from untimely strong rain/wind Check for mastitis
			• Use increase p.c. of salts.
		• Disease	 Check for Botulism. Check for diarrhoea due to consumption of excess trends green fodder.
	ation: Berseem/ Oat cre	op may be sown immediately	1.
Fishery		-	
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%

of the rice field can be converted into trenches/ditch/channels for paddy cum fish

Pond water may be replenished with fresh water maintaining a depth of 1m.

Male and female brooder fishes may be segregated for breeding operations.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

13th April, 2018

Chandel

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 14th to 18th April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th April, 2018)

Observed 14.5 mm rainfall with mainly cloudy to overcast sky during past three days. Maximum temperature recorded ranged from 26.0 to 27.7 °C and minimum of 14.6 to 16.2 °C with mean relative humidity 88.3 % max and 55.3 % min was recorded in the past three days.

Weather forecast for next five days of Chandel (14th to 18th April, 2018)

Likely to have scattered to fairly widespread thundery showers with squall during next five days and partly cloudy to overcast sky with maximum temp. 27-28 °C & minimum temp. 15-16 °C. Relative humidity may reach up to 87 % (max RH) & 32 % (min RH). The average wind speed may be 3-4 km/hr.

Field Crops			
* Harvest rain water			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Vegetative		 Drainage and bunds may be constructed well for maintaining water level in the crop field. Drain out excess rain water if accumulated in the field. Water depth may be maintained at 5-8 cm.
Rabi Maize	Vegetative to pre- flowering		- Drainage may be constructed well to avoid water logging in and around the crop field.
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 co	onstructed 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.
Passion fruit	Planting		It is right time for collection of terminal cuttings (pencil thickness) for passion fruit. Dip the cuttings in 500 ppm IBA (IBA 100 mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with soil, sand & FYM in the ratio 2:1:1 in slanting position.
Khasi Mandarin	For grown up		For grown up Khasi Mandarin, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Kachai Lemon	For grown up		For grown up Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Cucurbits	Transplanting to vegetative		- Construct proper drainage system to avoid water logging in and around the crop field. Drain out excess 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.
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 dog against borer @ 0.75ml/litre of water.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.



Cat fish

(Ngakra)

Pond and water

Fish

Feed

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Animal Scienc			
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.
		Management	 Use polythene sheet/plastic for wall to protect from storm/rain. Use electrolyte to protect from dehydration. Give Vitamin C in drinking water
Sheep/ Goat	All age groups	Vaccination	Enterotoxaemia and Sheep Pox should be protected by vaccination.
		Management	 Fly repellant must be used in the premises of the sheds Insecticides
Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young ones	Vaccination	Vaccinate against Swine Fever.
	ones	Management	 Keep the sty dry Give electrolyte salts in feed.
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones	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. Adequate care must be ensured for protecting from untimely strong rain/wind Check for mastitis Use increase p.c. of salts.
		• Disease	Check for Botulism. Check for diarrhoea due to consumption of excess trends green fodder.
Fodder cultiva	tion: Berseem/ Oat cro	op may be sown immediately.	· · · · · · · · · · · · · · · · · · ·
Fishery			
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 insect 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 fis

Pond water may be replenished with fresh water maintaining a depth of 1m.

Male and female brooder fishes may be segregated for breeding operations.



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN

13th April, 2018

Churachandpur

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 14th to 18th April, 2018 as below:

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Weather forecast for next five days of Churachandpur (14th to 18th April, 2018)

Likely to have scattered to fairly widespread thundery showers with squall during next five days and partly cloudy to overcast sky with maximum temp. 28 °C & minimum temp. 16-17 °C. Relative humidity may reach up to 100 % (max RH) & 49 % (min RH). The average wind speed may be 4 km/hr.

Field Crops			
* Harvest rain water	<u>: </u>		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Vegetative		- Drainage and bunds may be constructed well for maintaining water level in the crop field. Drain out excess rain water if accumulated in the field. - Water depth may be maintained at 5-8 cm.
Rabi Maize	Vegetative to pre- flowering		- Drainage may be constructed well to avoid water logging in and around the crop field.
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 co	onstructed 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.
Passion fruit	Planting		It is right time for collection of terminal cuttings (pencil thickness) for passion fruit. Dip the cuttings in 500 ppm IBA (IBA 100 mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with soil, sand & FYM in the ratio 2:1:1 in slanting position.
Khasi Mandarin	For grown up		For grown up Khasi Mandarin, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Kachai Lemon	For grown up		For grown up Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Cucurbits	Transplanting to vegetative	Red Pumpkin Beetle	- Construct proper drainage system to avoid water logging in and around the crop field. Drain out excess 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 measure against Bulb rot in the crops grown in shed.
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 dog against borer @ 0.75ml/litre of water.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.

Feed



Paddy cum

fish culture

Cat fish

(Ngakra)

Field

Fish

Feed

Pond and water

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Animal Scienc			
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.
		Management	 Use polythene sheet/plastic for wall to protect from storm/rain. Use electrolyte to protect from dehydration. Give Vitamin C in drinking water
Sheep/ Goat	All age groups	Vaccination	Enterotoxaemia and Sheep Pox should be protected by vaccination.
		Management	 Fly repellant must be used in the premises of the sheds Insecticides
Pig	All age groups	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against Swine Fever.
	ones	Management	Keep the sty dryGive electrolyte salts in feed.
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones	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.
			 Adequate care must be ensured for protecting from untimely strong rain/wind Check for mastitis
			• Use increase p.c. of salts.
		• Disease	 Check for Botulism. Check for diarrhoea due to consumption of excess trends green fodder.
	ation: Berseem/ Oat cro	op may be sown immediately	·
Fishery			
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.
	1	Food	Wall belonged food should be provided @ 2.50/ bedy weight nor day in 2.2

Well balanced feed should be provided @ 3-5% body weight per day in 2-3

Pond water may be replenished with fresh water maintaining a depth of 1m.

Male and female brooder fishes may be segregated for breeding operations.

Well balanced feed may be fed @ 3-5% body weight/day.

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



Field Crops

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN

13th April, 2018

Imphal East

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Weather forecast for next five days of Imphal East (14th to 18th April, 2018)

Likely to have scattered to fairly widespread thundery showers with squall during next five days and partly cloudy to overcast sky with maximum temp. 28 °C & minimum temp. 16-17 °C. Relative humidity may reach up to 100 % (max RH) & 39 % (min RH). The average wind speed may be 0-3 km/hr.

Fiela Crops			
* Harvest rain water.		•	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Vegetative		- Drainage and bunds may be constructed well for maintaining water level in the crop field. Drain out excess rain water if accumulated in the field. - Water depth may be maintained at 5-8 cm.
Rabi Maize	Vegetative to pre- flowering		- Drainage may be constructed well to avoid water logging in and around the crop field.
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 co	instructed 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.
Passion fruit	Planting		It is right time for collection of terminal cuttings (pencil thickness) for passion fruit. Dip the cuttings in 500 ppm IBA (IBA 100 mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with soil, sand & FYM in the ratio 2:1:1 in slanting position.
Khasi Mandarin	For grown up		For grown up Khasi Mandarin, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Kachai Lemon	For grown up		For grown up Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Cucurbits	Transplanting to vegetative		- Construct proper drainage system to avoid water logging in and around the crop field. Drain out excess water.
		Red Pumpkin Beetle	If Red Pumpkin Beetle infestation is observed, Carbaryl (0.2%) of 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 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.
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 dog against borer @ 0.75ml/litre of water.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.



Fish Feed

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal	8	Management	
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.
		Management	 Use polythene sheet/plastic for wall to protect from storm/rain. Use electrolyte to protect from dehydration. Give Vitamin C in drinking water
Sheep/ Goat	All age groups	Vaccination	Enterotoxaemia and Sheep Pox should be protected by vaccination.
		Management	 Fly repellant must be used in the premises of the sheds Insecticides
Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young ones	Vaccination	Vaccinate against Swine Fever.
	ones	Management	Keep the sty dryGive electrolyte salts in feed.
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones	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.
			 Adequate care must be ensured for protecting from untimely strong rain/wind Check for mastitis
			• Use increase p.c. of salts.
		• Disease	• Check for Botulism.
	<u> </u>		Check for diarrhoea due to consumption of excess trends green fodder.
	tion: Berseem/ Oat cro	op may be sown immediately	·
Fishery	Ctoro	I	A sus modulacias addication
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 insect 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 fis culture.
Cat fish Pond and water (Ngakra) Fish			Pond water may be replenished with fresh water maintaining a depth of 1m.
			Male and female brooder fishes may be segregated for breeding operations.
(Ngakra)	1/1811		Wall belonged field may be fed @ 2.50/ bedy weight/day



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

13th 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 14th to 18th April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th April, 2018)

Observed **14.5 mm** rainfall with **mainly cloudy to overcast sky** during past three days. Maximum temperature recorded ranged from **26.0** to **27.7** °C and minimum of **14.6** to **16.2** °C with mean relative humidity **88.3** % max and **55.3** % min was recorded in the past three days.

Weather forecast for next five days of Imphal West (14th to 18th April, 2018)

Likely to have scattered to fairly widespread thundery showers with squall during next five days and partly cloudy to overcast sky with maximum temp. 28 °C & minimum temp. 16-17 °C. Relative humidity may reach up to 100 % (max RH) & 46 % (min RH). The average wind speed may be 0-3 km/hr.

Field Crops			
* Harvest rain water		T	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Vegetative		 Drainage and bunds may be constructed well for maintaining water level in the crop field. Drain out excess rain water if accumulated in the field. Water depth may be maintained at 5-8 cm.
Rabi Maize	Vegetative to pre- flowering		- Drainage may be constructed well to avoid water logging in and around the crop field.
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 co	onstructed 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.
Passion fruit	Planting		It is right time for collection of terminal cuttings (pencil thickness) for passion fruit. Dip the cuttings in 500 ppm IBA (IBA 100 mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with soil, sand & FYM in the ratio 2:1:1 in slanting position.
Khasi Mandarin	For grown up		For grown up Khasi Mandarin, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Kachai Lemon	For grown up		For grown up Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Cucurbits	Transplanting to vegetative		- Construct proper drainage system to avoid water logging in and around the crop field. Drain out excess water.
		Red Pumpkin Beetle	If Red Pumpkin Beetle infestation is observed, Carbaryl (0.2%) of 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.
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 dog against borer @ 0.75ml/litre of water.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.



Fish Feed

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal	8	Management	
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.
		Management	 Use polythene sheet/plastic for wall to protect from storm/rain. Use electrolyte to protect from dehydration. Give Vitamin C in drinking water
Sheep/ Goat	All age groups	Vaccination	Enterotoxaemia and Sheep Pox should be protected by vaccination.
		Management	 Fly repellant must be used in the premises of the sheds Insecticides
Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young ones	Vaccination	Vaccinate against Swine Fever.
	ones	Management	Keep the sty dryGive electrolyte salts in feed.
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones	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.
			 Adequate care must be ensured for protecting from untimely strong rain/wind Check for mastitis
			• Use increase p.c. of salts.
		• Disease	• Check for Botulism.
	<u> </u>		Check for diarrhoea due to consumption of excess trends green fodder.
	tion: Berseem/ Oat cro	op may be sown immediately	·
Fishery	Ctoro	I	A sus modulacias addication
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 insect 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 fis culture.
Cat fish Pond and water (Ngakra) Fish			Pond water may be replenished with fresh water maintaining a depth of 1m.
			Male and female brooder fishes may be segregated for breeding operations.
(Ngakra)	1/1811		Wall belonged field may be fed @ 2.50/ bedy weight/day



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

13th April, 2018

<u>Senapati</u>

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 14th to 18th April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th April, 2018)

Observed **14.5 mm** rainfall with **mainly cloudy to overcast sky** during past three days. Maximum temperature recorded ranged from **26.0** to **27.7** °C and minimum of **14.6** to **16.2** °C with mean relative humidity **88.3** % max and **55.3** % min was recorded in the past three days.

Weather forecast for next five days of Senapati (14th to 18th April, 2018)

Likely to have scattered to fairly widespread thundery showers with squall during next five days and partly cloudy to overcast sky with maximum temp. 25 °C & minimum temp. 13-14 °C. Relative humidity may reach up to 97 % (max RH) & 50 % (min RH). The average wind speed may be 3-4 km/hr.

Field Crops			
* Harvest rain water		T =	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Vegetative		- Drainage and bunds may be constructed well for maintaining water level in the crop field. Drain out excess rain water if accumulated in the field. - Water depth may be maintained at 5-8 cm.
Rabi Maize	Vegetative to pre- flowering		- Drainage may be constructed well to avoid water logging in and around the crop field.
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 co	onstructed 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.
Passion fruit	Planting		It is right time for collection of terminal cuttings (pencil thickness) for passion fruit. Dip the cuttings in 500 ppm IBA (IBA 100 mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with soil, sand & FYM in the ratio 2:1:1 in slanting position.
Khasi Mandarin	For grown up		For grown up Khasi Mandarin, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Kachai Lemon	For grown up		For grown up Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Cucurbits	Transplanting to vegetative	Red Pumpkin Beetle	- Construct proper drainage system to avoid water logging in and around the crop field. Drain out excess 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.
Onion	Bulb maturity	Thrips/ leaf minor Bulb rot	 traps/ sangam. 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 measure against Bulb rot in the crops grown in shed.
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 dog against borer @ 0.75ml/litre of water.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.



Cat fish

(Ngakra)

Pond and water

Fish

Feed

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Animal Scienc			
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.
		Management	 Use polythene sheet/plastic for wall to protect from storm/rain. Use electrolyte to protect from dehydration. Give Vitamin C in drinking water
Sheep/ Goat	All age groups	Vaccination	Enterotoxaemia and Sheep Pox should be protected by vaccination.
		Management	 Fly repellant must be used in the premises of the sheds Insecticides
Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young ones	Vaccination	Vaccinate against Swine Fever.
	ones	Management	 Keep the sty dry Give electrolyte salts in feed.
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones	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. Adequate care must be ensured for protecting from untimely strong rain/wind Check for mastitis Use increase p.c. of salts.
		• Disease	Check for Botulism. Check for diarrhoea due to consumption of excess trends green fodder.
Fodder cultiva	tion: Berseem/ Oat cro	op may be sown immediately.	· · · · · · · · · · · · · · · · · · ·
Fishery			
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 insect 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 fis

Pond water may be replenished with fresh water maintaining a depth of 1m.

Male and female brooder fishes may be segregated for breeding operations.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

13th 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 14th to 18th April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}\ to\ 12^{th}\ April, 2018)$

Observed **14.5 mm** rainfall with **mainly cloudy to overcast sky** during past three days. Maximum temperature recorded ranged from **26.0** to **27.7** °C and minimum of **14.6** to **16.2** °C with mean relative humidity **88.3** % max and **55.3** % min was recorded in the past three days.

Weather forecast for next five days of Senapati (14th to 18th April, 2018)

Likely to have scattered to fairly widespread thundery showers with squall during next five days and partly cloudy to overcast sky with maximum temp. 26-27 °C & minimum temp. 14 °C. Relative humidity may reach up to 97 % (max RH) & 44 % (min RH). The average wind speed may be 3 km/hr.

Field Crops			
* Harvest rain water		1	T
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Vegetative		 Drainage and bunds may be constructed well for maintaining water level in the crop field. Drain out excess rain water if accumulated in the field. Water depth may be maintained at 5-8 cm.
Rabi Maize	Vegetative to pre- flowering		- Drainage may be constructed well to avoid water logging in and around the crop field.
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 co	onstructed 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.
Passion fruit	Planting		It is right time for collection of terminal cuttings (pencil thickness) for passion fruit. Dip the cuttings in 500 ppm IBA (IBA 100 mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with soil, sand & FYM in the ratio 2:1:1 in slanting position.
Khasi Mandarin	For grown up		For grown up Khasi Mandarin, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Kachai Lemon	For grown up		For grown up Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Cucurbits	Transplanting to vegetative		- Construct proper drainage system to avoid water logging in and around the crop field. Drain out excess water.
		Red Pumpkin Beetle	If Red Pumpkin Beetle infestation is observed, Carbaryl (0.2%) of 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.
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 dog against borer @ 0.75ml/litre of water.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.



Paddy cum

fish culture

Cat fish

(Ngakra)

Field

Fish

Feed

Pond and water

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal 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.
		Management	 Use polythene sheet/plastic for wall to protect from storm/rain. Use electrolyte to protect from dehydration. Give Vitamin C in drinking water
Sheep/ Goat	All age groups	Vaccination	Enterotoxaemia and Sheep Pox should be protected by vaccination.
		Management	 Fly repellant must be used in the premises of the sheds Insecticides
Pig	All age groups	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against Swine Fever.
	ones	Management	Keep the sty dryGive electrolyte salts in feed.
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		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.
			 Adequate care must be ensured for protecting from untimely strong rain/wind Check for mastitis
			• Use increase p.c. of salts.
		• Disease	 Check for Botulism. Check for diarrhoea due to consumption of excess trends green fodder.
Fodder cultiva	tion: Berseem/ Oat cro	op may be sown immediately	
Fishery		· <u>P</u> ,	•
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 insect 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.
	1	Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3

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

Pond water may be replenished with fresh water maintaining a depth of 1m.

Male and female brooder fishes may be segregated for breeding operations.



Field Crops

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

13th 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 14th to 18th April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}$ to 12^{th} April, 2018)

Observed 14.5 mm rainfall with mainly cloudy to overcast sky during past three days. Maximum temperature recorded ranged from 26.0 to 27.7 °C and minimum of 14.6 to 16.2 °C with mean relative humidity 88.3 % max and 55.3 % min was recorded in the past three days.

Weather forecast for next five days of Thoubal (14th to 18th April, 2018)

Likely to have scattered to fairly widespread thundery showers with squall during next five days and partly cloudy to overcast sky with maximum temp. 29-30 °C & minimum temp. 17-18 °C. Relative humidity may reach up to 100 % (max RH) & 35 % (min RH). The average wind speed may be 3-4 km/hr.

riem Crops			
* Harvest rain water	•		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Vegetative		- Drainage and bunds may be constructed well for maintaining water level in the crop field. Drain out excess rain water if accumulated in the field.
			- Water depth may be maintained at 5-8 cm.
Rabi Maize	Vegetative to pre- flowering		- Drainage may be constructed well to avoid water logging in and around the crop field.
Soybean/ Groundnut/	Seed collection to		- Collect good quality seeds from reliable source for sowing Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may
Blackgram/ Redgram	Land preparation		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 co	onstructed 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.
Passion fruit	Planting		It is right time for collection of terminal cuttings (pencil thickness) for passion fruit. Dip the cuttings in 500 ppm IBA (IBA 100 mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with soil, sand & FYM in the ratio 2:1:1 in slanting position.
Khasi Mandarin	For grown up		For grown up Khasi Mandarin, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Kachai Lemon	For grown up		For grown up Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Cucurbits	Transplanting to vegetative		- Construct proper drainage system to avoid water logging in and around the crop field. Drain out excess 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.
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 dog against borer @ 0.75ml/litre of water.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.



Cat fish

(Ngakra)

Pond and water

Fish

Feed

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal		Management	
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.
		Management	 Use polythene sheet/plastic for wall to protect from storm/rain. Use electrolyte to protect from dehydration. Give Vitamin C in drinking water
Sheep/ Goat	All age groups	Vaccination	Enterotoxaemia and Sheep Pox should be protected by vaccination.
		Management	 Fly repellant must be used in the premises of the sheds Insecticides
Pig	All age groups	• De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against Swine Fever.
	ones	Management	Keep the sty dry Give electrolyte salts in feed.
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones	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.
			 Adequate care must be ensured for protecting from untimely strong rain/wind Check for mastitis
			• Use increase p.c. of salts.
		• Disease	Check for Botulism.
		1 1 1 1	Check for diarrhoea due to consumption of excess trends green fodder.
	ation: Berseem/ Oat cre	op may be sown immediately	
Fishery	G4		A
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 insect 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 fisl

Pond water may be replenished with fresh water maintaining a depth of 1m.

Male and female brooder fishes may be segregated for breeding operations.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

13th April, 2018

<u>Ukhrul</u>

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 14th to 18th April, 2018 as below:

Significant past weather for the preceding bi-weekly of
Imphal - West (10 th to 12 th April, 2018)

Observed **14.5 mm** rainfall with **mainly cloudy to overcast sky** during past three days. Maximum temperature recorded ranged from **26.0** to **27.7** °C and minimum of **14.6** to **16.2** °C with mean relative humidity **88.3** % max and **55.3** % min was recorded in the past three days.

Weather forecast for next five days of Ukhrul (14th to 18th April, 2018)

Likely to have scattered to fairly widespread thundery showers with squall during next five days and partly cloudy to overcast sky with maximum temp. 26-27 °C & minimum temp. 14 °C. Relative humidity may reach up to 88 % (max RH) & 35 % (min RH). The average wind speed may be 3-4 km/hr.

Field Crops * Harvest rain water			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Vegetative	rest and disease	- Drainage and bunds may be constructed well for maintaining water level in the crop field. Drain out excess rain water if accumulated in the field. - Water depth may be maintained at 5-8 cm.
Rabi Maize	Vegetative to pre- flowering		- Drainage may be constructed well to avoid water logging in and around the crop field.
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 mabe 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 an 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. Spra Malathion 1% on the walls of stores.
Horticulture Crops			
** Drainage may be co	onstructed 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.
Passion fruit	Planting		It is right time for collection of terminal cuttings (pencil thickness) for passion fruit. Dip the cuttings in 500 ppm IBA (IBA 100 mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with soil, sand & FYM in the ratio 2:1:1 in slanting position.
Khasi Mandarin	For grown up		For grown up Khasi Mandarin, apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost in the soil surrounding the plant.
Kachai Lemon	For grown up		For grown up Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP per plan along with 30 kg cowdung manure compost in the soil surrounding the plant.
Cucurbits	Transplanting to vegetative		- Construct proper drainage system to avoid water logging in and around the crop field. Drain out excess water.
		Red Pumpkin Beetle	If Red Pumpkin Beetle infestation is observed, Carbaryl (0.2%) of 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 of water to the crop during bulb formation stage.
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylact measure against Bulb rot in the crops grown in shed.
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 Blac dog against borer @ 0.75ml/litre of water.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.



Paddy cum

fish culture

Cat fish

(Ngakra)

Field

Fish

Feed

Pond and water

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal		Management	
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.
		Management	 Use polythene sheet/plastic for wall to protect from storm/rain. Use electrolyte to protect from dehydration. Give Vitamin C in drinking water
Sheep/ Goat	All age groups	Vaccination	Enterotoxaemia and Sheep Pox should be protected by vaccination.
		Management	 Fly repellant must be used in the premises of the sheds Insecticides
Pig	All age groups	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against Swine Fever.
	ones	Management	Keep the sty dry Give electrolyte salts in feed.
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones	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.
			 Adequate care must be ensured for protecting from untimely strong rain/wind Check for mastitis
			• Use increase p.c. of salts.
		• Disease	Check for Botulism.Check for diarrhoea due to consumption of excess trends green fodder.
• Fodder cultiva	ntion: Berseem/ Oat cre	op may be sown immediately	1.
Fishery			
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.
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			Well balanced feed should be provided @ 3-5% body weight per day in 2-3

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