



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

**MANIPUR BULLETIN****17th 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 18th to 22nd April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th April, 2018)

Observed **8.0 mm** rainfall with **mainly clear sky but mainly cloudy to overcast sky** during morning hours 13th and 15th April. Maximum temperature recorded ranged from **27.2** to **29.9 °C** and minimum of **15.1** to **16.8 °C** with mean relative humidity **87.5 %** max and **46.25 %** min was recorded in the past four days.

Weather forecast for next five days of Bishnupur (18th to 22nd April, 2018)

Likely to have fairly widespread to widespread thunderstorm with squall and hail during next five days and mainly cloudy to overcast sky with maximum temp. **29-31 °C** & minimum temp. **17-18 °C**. Relative humidity may reach up to **100 %** (max RH) & **63 %** (min RH). The average wind speed may be **0-2 km/hr**.

Enhanced rainfall activity with isolated thundersqualls is likely over Northeastern states from 18th April

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. - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
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 RC-Seed Bin 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 constructed well to avoid water logging in and around the crop field.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Eugenol 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 Chloropyrifos (0.05%) may be sprayed or use Methyl Eugenol 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		- Prepare land for planting colocasia.



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



	for planting		
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Manipur Centre, Lamphelpat, Imphal - 795 004
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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.
			- Construct wind breaks to avoid uprooting of standing crops by the high speed winds.

Animal Sciences

**** Repair the sheds of birds and animals to protect from strong winds.**

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.
		• Management	• PPR immunization must be done once in every three years.
Pig	All age groups except the young ones	• De-worming	• Fly repellent must be used in the premises of the sheds.
		• Vaccination	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Skin disease	• Vaccinate against FMD and Swine Fever.
		• Management	• Sprayer of <i>Anti-Psoroptic</i> may be used.
Cattle	All age groups excepts the young ones	• Vaccination	• Breeding must be advocated continuously.
		• Deworming	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		• Care & Management	• Cases of H.S. may be encountered during this period
			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			• 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.

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.
		Feed	Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Field		Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Cat fish (Ngakra)	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.
	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	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



ICAR Research Complex for N.E.H. Region
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**MANIPUR BULLETIN****17th 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 18th to 22nd April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th April, 2018)

Observed **8.0 mm** rainfall with **mainly clear sky but mainly cloudy to overcast sky** during morning hours 13th and 15th April. Maximum temperature recorded ranged from **27.2** to **29.9 °C** and minimum of **15.1** to **16.8 °C** with mean relative humidity **87.5 %** max and **46.25 %** min was recorded in the past four days.

Weather forecast for next five days of Chandel (18th to 22nd April, 2018)

Likely to have fairly widespread to widespread thunderstorm with squall and hail during next five days and mainly cloudy to overcast sky with maximum temp. **29-30 °C** & minimum temp. **15 °C**. Relative humidity may reach up to **87 %** (max RH) & **33 %** (min RH). The average wind speed may be **2-4 km/hr**.

Enhanced rainfall activity with isolated thundersqualls is likely over Northeastern states from 18th April

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. - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
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 RC-Seed Bin 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 constructed well to avoid water logging in and around the crop field.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Eugenol 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 Chloropyrifos (0.05%) may be sprayed or use Methyl Eugenol 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		- Prepare land for planting colocasia.



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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.
			- Construct wind breaks to avoid uprooting of standing crops by the high speed winds.

Animal Sciences

**** Repair the sheds of birds and animals to protect from strong winds.**

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.
		• Management	• PPR immunization must be done once in every three years.
Pig	All age groups except the young ones	• De-worming	• Fly repellent must be used in the premises of the sheds.
		• Vaccination	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Skin disease	• Vaccinate against FMD and Swine Fever.
		• Management	• Sprayer of <i>Anti-Psoroptic</i> may be used.
Cattle	All age groups excepts the young ones	• Vaccination	• Breeding must be advocated continuously.
		• Deworming	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		• Care & Management	• Cases of H.S. may be encountered during this period
			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to save the animals.
			• De-worm with Albomac suspension @60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			• 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.

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.
		Feed	Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Field		Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Cat fish (Ngakra)	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.
	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
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**MANIPUR BULLETIN****17th April, 2018****Churachandpur**

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Weather forecast for next five days of Churachandpur (18th to 22nd April, 2018)

Likely to have fairly widespread to widespread thunderstorm with squall and hail during next five days and mainly cloudy to overcast sky with maximum temp. **30-31 °C** & minimum temp. **16 °C**. Relative humidity may reach up to **100 %** (max RH) & **64 %** (min RH). The average wind speed may be **2-4 km/hr**.

Enhanced rainfall activity with isolated thundersqualls is likely over Northeastern states from 18th April

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. - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
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 RC-Seed Bin 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 constructed well to avoid water logging in and around the crop field.			
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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.
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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 Chloropyrifos (0.05%) may be sprayed or use Methyl Eugenol 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		- Prepare land for planting colocasia.



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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.
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Animal Sciences

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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.
		• Management	• PPR immunization must be done once in every three years.
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		• Care & Management	• Cases of H.S. may be encountered during this period
			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to save the animals.
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			• 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.

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.
		Feed	Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Field		Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Cat fish (Ngakra)	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.
	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	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



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**MANIPUR BULLETIN****17th April, 2018****Imphal East**

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 18th to 22nd April, 2018 as below:

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Weather forecast for next five days of Imphal East (18th to 22nd April, 2018)

Likely to have fairly widespread to widespread thunderstorm with squall and hail during next five days and mainly cloudy to overcast sky with maximum temp. **28-31 °C** & minimum temp. **16-17 °C**. Relative humidity may reach up to **100 %** (max RH) & **39 %** (min RH). The average wind speed may be **0-2 km/hr**.

Enhanced rainfall activity with isolated thundersqualls is likely over Northeastern states from 18th April

Field Crops			
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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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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 RC-Seed Bin 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 constructed well to avoid water logging in and around the crop field.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Eugenol 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 Chloropyrifos (0.05%) may be sprayed or use Methyl Eugenol 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		- Prepare land for planting colocasia.



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



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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.
			- Construct wind breaks to avoid uprooting of standing crops by the high speed winds.

Animal Sciences

**** Repair the sheds of birds and animals to protect from strong winds.**

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.
		• Management	• PPR immunization must be done once in every three years.
Pig	All age groups except the young ones	• De-worming	• Fly repellent must be used in the premises of the sheds.
		• Vaccination	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Skin disease	• Vaccinate against FMD and Swine Fever.
		• Management	• Sprayer of <i>Anti-Psoroptic</i> may be used.
Cattle	All age groups excepts the young ones	• Vaccination	• Breeding must be advocated continuously.
			• 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 save 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.

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.
		Feed	Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Field		Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Cat fish (Ngakra)	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.
	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	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



ICAR Research Complex for N.E.H. Region
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**MANIPUR BULLETIN****17th 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 18th to 22nd April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th April, 2018)

Observed **8.0 mm** rainfall with **mainly clear sky but mainly cloudy to overcast sky** during morning hours 13th and 15th April. Maximum temperature recorded ranged from **27.2** to **29.9 °C** and minimum of **15.1** to **16.8 °C** with mean relative humidity **87.5 %** max and **46.25 %** min was recorded in the past four days.

Weather forecast for next five days of Imphal West (18th to 22nd April, 2018)

Likely to have fairly widespread to widespread thunderstorm with squall and hail during next five days and mainly cloudy to overcast sky with maximum temp. **28-31 °C** & minimum temp. **16-17 °C**. Relative humidity may reach up to **100 %** (max RH) & **53 %** (min RH). The average wind speed may be **0-2 km/hr**.

Enhanced rainfall activity with isolated thundersqualls is likely over Northeastern states from 18th April

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. - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
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 RC-Seed Bin 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 constructed well to avoid water logging in and around the crop field.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Eugenol 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 Chloropyrifos (0.05%) may be sprayed or use Methyl Eugenol 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		- Prepare land for planting colocasia.



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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.
			- Construct wind breaks to avoid uprooting of standing crops by the high speed winds.

Animal Sciences

**** Repair the sheds of birds and animals to protect from strong winds.**

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.
		• Management	• PPR immunization must be done once in every three years.
Pig	All age groups except the young ones	• De-worming	• Fly repellent must be used in the premises of the sheds.
		• Vaccination	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Skin disease	• Vaccinate against FMD and Swine Fever.
		• Management	• Sprayer of <i>Anti-Psoroptic</i> may be used.
Cattle	All age groups excepts the young ones	• Vaccination	• Breeding must be advocated continuously.
			• 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 save 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.

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.
		Feed	Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Field		Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Cat fish (Ngakra)	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.
	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	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



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“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****17th 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 18th to 22nd April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th April, 2018)

Observed **8.0 mm** rainfall with **mainly clear sky but mainly cloudy to overcast sky** during morning hours 13th and 15th April. Maximum temperature recorded ranged from **27.2** to **29.9 °C** and minimum of **15.1** to **16.8 °C** with mean relative humidity **87.5 %** max and **46.25 %** min was recorded in the past four days.

Weather forecast for next five days of Senapati (18th to 22nd April, 2018)

Likely to have fairly widespread to widespread thunderstorm with squall and hail during next five days and mainly cloudy to overcast sky with maximum temp. **27-28 °C** & minimum temp. **13-14 °C**. Relative humidity may reach up to **100 %** (max RH) & **51 %** (min RH). The average wind speed may be **2-3 km/hr**.

Enhanced rainfall activity with isolated thundersqualls is likely over Northeastern states from 18th April

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. - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
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 RC-Seed Bin 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 constructed well to avoid water logging in and around the crop field.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Eugenol 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.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.
Animal Sciences			
** Repair the sheds of birds and animals to protect from strong winds.			
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.



ICAR Research Complex for N.E.H. Region

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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 repellent must be used in the premises of the sheds.
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.
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 save 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.

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 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 (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	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



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“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****17th 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 18th to 22nd April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th April, 2018)

Observed **8.0 mm** rainfall with **mainly clear sky but mainly cloudy to overcast sky** during morning hours 13th and 15th April. Maximum temperature recorded ranged from **27.2** to **29.9 °C** and minimum of **15.1** to **16.8 °C** with mean relative humidity **87.5 %** max and **46.25 %** min was recorded in the past four days.

Weather forecast for next five days of Tamenglong (18th to 22nd April, 2018)

Likely to have fairly widespread to widespread thunderstorm with squall and hail during next five days and mainly cloudy to overcast sky with maximum temp. **28 °C** & minimum temp. **14 °C**. Relative humidity may reach up to **99 %** (max RH) & **57 %** (min RH). The average wind speed may be **2-3 km/hr**.

Enhanced rainfall activity with isolated thundersqualls is likely over Northeastern states from 18th April

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. - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
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 RC-Seed Bin 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 constructed well to avoid water logging in and around the crop field.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Eugenol 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 Chloropyrifos (0.05%) may be sprayed or use Methyl Eugenol 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		- Prepare land for planting colocasia.



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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.
			- Construct wind breaks to avoid uprooting of standing crops by the high speed winds.

Animal Sciences

**** Repair the sheds of birds and animals to protect from strong winds.**

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.
		• Management	• PPR immunization must be done once in every three years.
Pig	All age groups except the young ones	• De-worming	• Fly repellent must be used in the premises of the sheds.
		• Vaccination	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Skin disease	• Vaccinate against FMD and Swine Fever.
		• Management	• Sprayer of <i>Anti-Psoroptic</i> may be used.
Cattle	All age groups excepts the young ones	• Vaccination	• Breeding must be advocated continuously.
			• 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.

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.
		Feed	Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Field		Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Cat fish (Ngakra)	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.
	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	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



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

**MANIPUR BULLETIN****17th 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 18th to 22nd April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th April, 2018)

Observed **8.0 mm** rainfall with **mainly clear sky but mainly cloudy to overcast sky** during morning hours 13th and 15th April. Maximum temperature recorded ranged from **27.2 to 29.9 °C** and minimum of **15.1 to 16.8 °C** with mean relative humidity **87.5 %** max and **46.25 %** min was recorded in the past four days.

Weather forecast for next five days of Thoubal (18th to 22nd April, 2018)

Likely to have fairly widespread to widespread thunderstorm with squall and hail during next five days and mainly cloudy to overcast sky with maximum temp. **30-31 °C** & minimum temp. **17 °C**. Relative humidity may reach up to **99 %** (max RH) & **42 %** (min RH). The average wind speed may be **2-4 km/hr**.

Enhanced rainfall activity with isolated thundersqualls is likely over Northeastern states from 18th April

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. - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
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 RC-Seed Bin 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 constructed well to avoid water logging in and around the crop field.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Eugenol 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 Chloropyrifos (0.05%) may be sprayed or use Methyl Eugenol 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		- Prepare land for planting colocasia.



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“Gramin Krishi Mausam Seva”



	for planting		
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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.
			- Construct wind breaks to avoid uprooting of standing crops by the high speed winds.

Animal Sciences

**** Repair the sheds of birds and animals to protect from strong winds.**

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.
		• Management	• PPR immunization must be done once in every three years.
Pig	All age groups except the young ones	• De-worming	• Fly repellent must be used in the premises of the sheds.
		• Vaccination	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Skin disease	• Vaccinate against FMD and Swine Fever.
		• Management	• Sprayer of <i>Anti-Psoroptic</i> may be used.
Cattle	All age groups excepts the young ones	• Vaccination	• Breeding must be advocated continuously.
		• Deworming	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		• Care & Management	• Cases of H.S. may be encountered during this period
			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to save the animals.
			• De-worm with Albomac suspension @60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			• 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.

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.
		Feed	Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Field		Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Cat fish (Ngakra)	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.
	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

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Scientist i/c, GKMS



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“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****17th 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 18th to 22nd April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th April, 2018)

Observed **8.0 mm** rainfall with **mainly clear sky but mainly cloudy to overcast sky** during morning hours 13th and 15th April. Maximum temperature recorded ranged from **27.2** to **29.9 °C** and minimum of **15.1** to **16.8 °C** with mean relative humidity **87.5 %** max and **46.25 %** min was recorded in the past four days.

Weather forecast for next five days of Ukhrul (18th to 22nd April, 2018)

Likely to have fairly widespread to widespread thunderstorm with squall and hail during next five days and mainly cloudy to overcast sky with maximum temp. **28 °C** & minimum temp. **14 °C**. Relative humidity may reach up to **88 %** (max RH) & **42 %** (min RH). The average wind speed may be **2-4 km/hr**.

Enhanced rainfall activity with isolated thundersqualls is likely over Northeastern states from 18th April

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. - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
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 RC-Seed Bin 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 constructed well to avoid water logging in and around the crop field.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Eugenol 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.
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Colocasia	Land preparation for planting		- Prepare land for planting colocasia.
Animal Sciences			
** Repair the sheds of birds and animals to protect from strong winds.			
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.



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Manipur Centre, Lamphelpat, Imphal - 795 004

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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 repellent must be used in the premises of the sheds.
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.
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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 save 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.

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.
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		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 (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
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