



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



MANIPUR BULLETIN

3rd July, 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 4th to 8th July, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (29th June to 2nd July, 2018) Observed 8.1 mm rainfall with mainly cloudy sky during past four days but partly cloudy during afternoon hours of 30th June. Maximum temperature recorded ranged from 27.9 to 29.0 °C and minimum of 21.5 to 22.7 °C with mean relative humidity 82.0 % max and 70.0 % min was recorded in the past four days with average wind speed was 2.6 – 7.2 km/ hr.</p>	<p>Weather forecast for next five days of Imphal West (4th to 8th July, 2018) Likely to have light to moderate rains upto Sunday and mainly cloudy to overcast sky with maximum temp. 29-31 °C & minimum temp. 23-25 °C. Relative humidity may reach upto 95 % (max RH) & 90 % (min RH). The average wind speed may be 2-3 km/hr.</p>
---	---

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting stage (Pre-kharif rice)		- Drain out excess water from the field if accumulated due to rains. - Drain the water in fields nearly 10-15 days before the expected harvest date. - Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. - If the crop is in ready to harvest stage then harvest it before rains.
	Nursery and transplanting (Kharif rice)		- 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting). - Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting.
Kharif Maize	Vegetative		- For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. - Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		- Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. - Monitor for insect pest infestation.
Blackgram/ Rice Bean	Vegetative		- Weeding may be done after rain if the weed population is high. - Monitor for insect pest infestation.
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 properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Citrus			Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. - Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthraxnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting		Spray Zineb @ 2g/lit of water.
Cauliflower (Early)	Land preparation to nursery sowing		- Prepare raised nursery bed with temporary rain shed and drain out excess water near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Till germination the cover bed with paddy straw.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Turmeric	Vegetative	Leaf Spot and leaf blotch	- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures against Leaf Spot and leaf blotch after the rain.
Colocassia	Vegetative	Leaf blight	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.

Animal Sciences

* Provide clean drinking water for birds and animals. Drainage may be constructed well around the birds or animals sheds to avoid water logging.

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised 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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Management	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
		• 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. do it in this month.
		• Fascioliosis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. • Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		• 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/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.

Fishery

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	Hatching can be done in traditional happas having outer & inner happas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% 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

3rd July, 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 4th to 8th July, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (29th June to 2nd July, 2018) Observed 8.1 mm rainfall with mainly cloudy sky during past four days but partly cloudy during afternoon hours of 30th June. Maximum temperature recorded ranged from 27.9 to 29.0 °C and minimum of 21.5 to 22.7 °C with mean relative humidity 82.0 % max and 70.0 % min was recorded in the past four days with average wind speed was 2.6 – 7.2 km/ hr.</p>	<p>Weather forecast for next five days of Senapati (4th to 8th July, 2018) Likely to have light to moderate rains upto Sunday and mainly cloudy to overcast sky with maximum temp. 25-26 °C & minimum temp. 20-21 °C. Relative humidity may reach upto 100 % (max RH) & 98 % (min RH). The average wind speed may be 2-4 km/hr.</p>
---	---

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting stage (Pre-kharif rice)		- Drain out excess water from the field if accumulated due to rains. - Drain the water in fields nearly 10-15 days before the expected harvest date. - Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. - If the crop is in ready to harvest stage then harvest it before rains.
	Nursery and transplanting (Kharif rice)		- 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting). - Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting.
Kharif Maize	Vegetative		- For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. - Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		- Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. - Monitor for insect pest infestation.
Blackgram/ Rice Bean	Vegetative		- Weeding may be done after rain if the weed population is high. - Monitor for insect pest infestation.
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 properly. Spray Malathion 1% on the walls of stores.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Citrus			Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. - Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthraxnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting		Spray Zineb @ 2g/lit of water.
Turmeric	Vegetative	Leaf Spot and leaf blotch	- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures against Leaf Spot and leaf blotch after the rain.



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



Colocassia	Vegetative	Leaf blight	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
-------------------	------------	-------------	--

Animal Sciences

* Provide clean drinking water for birds and animals. Drainage may be constructed well around the birds or animals sheds to avoid water logging.

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised 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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Management	• Do not allow to <i>consume muddy water to protect from E.coli infection. Use water sanitizer.</i>
		• 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. do it in this month.
		• Fascioliosis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. • Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		• 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/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.

Fishery

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	Hatching can be done in traditional happas having outer & inner happas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% 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

3rd July, 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 4th to 8th July, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (29th June to 2nd July, 2018) Observed 8.1 mm rainfall with mainly cloudy sky during past four days but partly cloudy during afternoon hours of 30th June. Maximum temperature recorded ranged from 27.9 to 29.0 °C and minimum of 21.5 to 22.7 °C with mean relative humidity 82.0 % max and 70.0 % min was recorded in the past four days with average wind speed was 2.6 – 7.2 km/ hr.</p>	<p>Weather forecast for next five days of Tamenglong (4th to 8th July, 2018) Likely to have light to moderate rains upto Sunday and mainly cloudy to overcast sky with maximum temp. 27 °C & minimum temp. 21-22 °C. Relative humidity may reach upto 100 % (max RH) & 92 % (min RH). The average wind speed may be 2 km/hr.</p>
---	--

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting stage (Pre-kharif rice)		- Drain out excess water from the field if accumulated due to rains. - Drain the water in fields nearly 10-15 days before the expected harvest date. - Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. - If the crop is in ready to harvest stage then harvest it before rains.
	Nursery and transplanting (Kharif rice)		- 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting). - Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting.
Kharif Maize	Vegetative		- For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. - Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		- Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. - Monitor for insect pest infestation.
Blackgram/ Rice Bean	Vegetative		- Weeding may be done after rain if the weed population is high. - Monitor for insect pest infestation.
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 properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Citrus			Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. - Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthraxnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting		Spray Zineb @ 2g/lit of water.
Cauliflower (Early)	Land preparation to nursery sowing		- Prepare raised nursery bed with temporary rain shed and drain out excess water near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Till germination the cover bed with paddy straw.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Turmeric	Vegetative	Leaf Spot and leaf blotch	- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures against Leaf Spot and leaf blotch after the rain.
Colocassia	Vegetative	Leaf blight	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.

Animal Sciences

* Provide clean drinking water for birds and animals. Drainage may be constructed well around the birds or animals sheds to avoid water logging.

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised 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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Management	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
		• 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. do it in this month.
		• Fascioliosis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. • Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		• 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/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.

Fishery

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	Hatching can be done in traditional happas having outer & inner happas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% 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

3rd July, 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 4th to 8th July, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (29th June to 2nd July, 2018) Observed 8.1 mm rainfall with mainly cloudy sky during past four days but partly cloudy during afternoon hours of 30th June. Maximum temperature recorded ranged from 27.9 to 29.0 °C and minimum of 21.5 to 22.7 °C with mean relative humidity 82.0 % max and 70.0 % min was recorded in the past four days with average wind speed was 2.6 – 7.2 km/ hr.</p>	<p>Weather forecast for next five days of Thoubal (4th to 8th July, 2018) Likely to have light to moderate rains upto Sunday and mainly cloudy to overcast sky with maximum temp. 29-32 °C & minimum temp. 24 °C. Relative humidity may reach upto 98 % (max RH) & 87 % (min RH). The average wind speed may be 0-4 km/hr.</p>
---	--

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting stage (Pre-kharif rice)		- Drain out excess water from the field if accumulated due to rains. - Drain the water in fields nearly 10-15 days before the expected harvest date. - Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. - If the crop is in ready to harvest stage then harvest it before rains.
	Nursery and transplanting (Kharif rice)		- 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting). - Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting.
Kharif Maize	Vegetative		- For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. - Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		- Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. - Monitor for insect pest infestation.
Blackgram/ Rice Bean	Vegetative		- Weeding may be done after rain if the weed population is high. - Monitor for insect pest infestation.
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 properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Citrus			Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. - Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthraxnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting		Spray Zineb @ 2g/lit of water.
Cauliflower (Early)	Land preparation to nursery sowing		- Prepare raised nursery bed with temporary rain shed and drain out excess water near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Till germination the cover bed with paddy straw.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Turmeric	Vegetative	Leaf Spot and leaf blotch	- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures against Leaf Spot and leaf blotch after the rain.
Colocassia	Vegetative	Leaf blight	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.

Animal Sciences

* Provide clean drinking water for birds and animals. Drainage may be constructed well around the birds or animals sheds to avoid water logging.

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised 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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Management	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
		• 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. do it in this month.
		• Fascioliosis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. • Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		• 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/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.

Fishery

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	Hatching can be done in traditional happas having outer & inner happas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% 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

3rd July, 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 4th to 8th July, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (29th June to 2nd July, 2018) Observed 8.1 mm rainfall with mainly cloudy sky during past four days but partly cloudy during afternoon hours of 30th June. Maximum temperature recorded ranged from 27.9 to 29.0 °C and minimum of 21.5 to 22.7 °C with mean relative humidity 82.0 % max and 70.0 % min was recorded in the past four days with average wind speed was 2.6 – 7.2 km/ hr.</p>	<p>Weather forecast for next five days of Ukhrul (4th to 8th July, 2018) Likely to have light to moderate rains upto Sunday and mainly cloudy to overcast sky with maximum temp. 26-27 °C & minimum temp. 20-21 °C. Relative humidity may reach upto 100 % (max RH) & 89 % (min RH). The average wind speed may be 2-3 km/hr.</p>
---	---

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting stage (Pre-kharif rice)		- Drain out excess water from the field if accumulated due to rains. - Drain the water in fields nearly 10-15 days before the expected harvest date. - Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. - If the crop is in ready to harvest stage then harvest it before rains.
	Nursery and transplanting (Kharif rice)		- 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting). - Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting.
Kharif Maize	Vegetative		- For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. - Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		- Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. - Monitor for insect pest infestation.
Blackgram/ Rice Bean	Vegetative		- Weeding may be done after rain if the weed population is high. - Monitor for insect pest infestation.
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 properly. Spray Malathion 1% on the walls of stores.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Citrus			Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. - Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthraxnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting		Spray Zineb @ 2g/lit of water.
Turmeric	Vegetative	Leaf Spot and leaf blotch	- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures against Leaf Spot and leaf blotch after the rain.



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



Colocassia	Vegetative	Leaf blight	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
-------------------	------------	-------------	--

Animal Sciences

* Provide clean drinking water for birds and animals. Drainage may be constructed well around the birds or animals sheds to avoid water logging.

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised 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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Management	• Do not allow to <i>consume muddy water to protect from E.coli infection. Use water sanitizer.</i>
		• 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. do it in this month.
		• Fascioliosis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. • Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		• 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/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.

Fishery

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	Hatching can be done in traditional happas having outer & inner happas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% 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

3rd July, 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 4th to 8th July, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (29th June to 2nd July, 2018) Observed 8.1 mm rainfall with mainly cloudy sky during past four days but partly cloudy during afternoon hours of 30th June. Maximum temperature recorded ranged from 27.9 to 29.0 °C and minimum of 21.5 to 22.7 °C with mean relative humidity 82.0 % max and 70.0 % min was recorded in the past four days with average wind speed was 2.6 – 7.2 km/ hr.</p>	<p>Weather forecast for next five days of Bishnupur (4th to 8th July, 2018) Likely to have light to moderate rains upto Sunday and mainly cloudy to overcast sky with maximum temp. 29-32 °C & minimum temp. 24 °C. Relative humidity may reach upto 98 % (max RH) & 87 % (min RH). The average wind speed may be 0-2 km/hr.</p>
---	--

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting stage (Pre-kharif rice)		- Drain out excess water from the field if accumulated due to rains. - Drain the water in fields nearly 10-15 days before the expected harvest date. - Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. - If the crop is in ready to harvest stage then harvest it before rains.
	Nursery and transplanting (Kharif rice)		- 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting). - Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting.
Kharif Maize	Vegetative		- For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. - Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		- Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. - Monitor for insect pest infestation.
Blackgram/ Rice Bean	Vegetative		- Weeding may be done after rain if the weed population is high. - Monitor for insect pest infestation.
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 properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Citrus			Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. - Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthraxnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting		Spray Zineb @ 2g/lit of water.
Cauliflower (Early)	Land preparation to nursery sowing		- Prepare raised nursery bed with temporary rain shed and drain out excess water near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Till germination the cover bed with paddy straw.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Turmeric	Vegetative	Leaf Spot and leaf blotch	- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures against Leaf Spot and leaf blotch after the rain.
Colocassia	Vegetative	Leaf blight	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.

Animal Sciences

* Provide clean drinking water for birds and animals. Drainage may be constructed well around the birds or animals sheds to avoid water logging.

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised 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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Management	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
		• 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. do it in this month.
		• Fascioliosis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. • Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		• 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/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.

Fishery

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	Hatching can be done in traditional happas having outer & inner happas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% 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

3rd July, 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 4th to 8th July, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (29th June to 2nd July, 2018) Observed 8.1 mm rainfall with mainly cloudy sky during past four days but partly cloudy during afternoon hours of 30th June. Maximum temperature recorded ranged from 27.9 to 29.0 °C and minimum of 21.5 to 22.7 °C with mean relative humidity 82.0 % max and 70.0 % min was recorded in the past four days with average wind speed was 2.6 – 7.2 km/ hr.</p>	<p>Weather forecast for next five days of Chandel (4th to 8th July, 2018) Likely to have light to moderate rains upto Sunday and mainly cloudy to overcast sky with maximum temp. 27-28 °C & minimum temp. 21-22 °C. Relative humidity may reach upto 100 % (max RH) & 85 % (min RH). The average wind speed may be 2-4 km/hr.</p>
---	--

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting stage (Pre-kharif rice)		- Drain out excess water from the field if accumulated due to rains. - Drain the water in fields nearly 10-15 days before the expected harvest date. - Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. - If the crop is in ready to harvest stage then harvest it before rains.
	Nursery and transplanting (Kharif rice)		- 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting). - Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting.
Kharif Maize	Vegetative		- For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. - Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		- Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. - Monitor for insect pest infestation.
Blackgram/ Rice Bean	Vegetative		- Weeding may be done after rain if the weed population is high. - Monitor for insect pest infestation.
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 properly. Spray Malathion 1% on the walls of stores.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Citrus			Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. - Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting		Spray Zineb @ 2g/lit of water.
Cauliflower (Early)	Land preparation to nursery sowing		- Prepare raised nursery bed with temporary rain shed and drain out excess water near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Till germination the cover bed with paddy straw.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Turmeric	Vegetative	Leaf Spot and leaf blotch	- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures against Leaf Spot and leaf blotch after the rain.
Colocassia	Vegetative	Leaf blight	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.

Animal Sciences

* Provide clean drinking water for birds and animals. Drainage may be constructed well around the birds or animals sheds to avoid water logging.

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised 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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Management	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
		• 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. do it in this month.
		• Fascioliosis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. • Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		• 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/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.

Fishery

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	Hatching can be done in traditional happas having outer & inner happas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% 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

3rd July, 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 4th to 8th July, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (29th June to 2nd July, 2018) Observed 8.1 mm rainfall with mainly cloudy sky during past four days but partly cloudy during afternoon hours of 30th June. Maximum temperature recorded ranged from 27.9 to 29.0 °C and minimum of 21.5 to 22.7 °C with mean relative humidity 82.0 % max and 70.0 % min was recorded in the past four days with average wind speed was 2.6 – 7.2 km/ hr.</p>	<p>Weather forecast for next five days of Churachandpur (4th to 8th July, 2018) Likely to have light to moderate rains upto Sunday and mainly cloudy to overcast sky with maximum temp. 29-31 °C & minimum temp. 23-25 °C. Relative humidity may reach upto 100 % (max RH) & 86 % (min RH). The average wind speed may be 0-3 km/hr.</p>
---	--

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting stage (Pre-kharif rice)		- Drain out excess water from the field if accumulated due to rains. - Drain the water in fields nearly 10-15 days before the expected harvest date. - Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. - If the crop is in ready to harvest stage then harvest it before rains.
	Nursery and transplanting (Kharif rice)		- 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting). - Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting.
Kharif Maize	Vegetative		- For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. - Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		- Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. - Monitor for insect pest infestation.
Blackgram/ Rice Bean	Vegetative		- Weeding may be done after rain if the weed population is high. - Monitor for insect pest infestation.
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 properly. Spray Malathion 1% on the walls of stores.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Citrus			Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. - Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthraxnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting		Spray Zineb @ 2g/lit of water.
Cauliflower (Early)	Land preparation to nursery sowing		- Prepare raised nursery bed with temporary rain shed and drain out excess water near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Till germination the cover bed with paddy straw.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Turmeric	Vegetative	Leaf Spot and leaf blotch	- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures against Leaf Spot and leaf blotch after the rain.
Colocassia	Vegetative	Leaf blight	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.

Animal Sciences

* Provide clean drinking water for birds and animals. Drainage may be constructed well around the birds or animals sheds to avoid water logging.

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised 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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Management	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
		• 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. do it in this month.
		• Fascioliosis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. • Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		• 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/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.

Fishery

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	Hatching can be done in traditional happas having outer & inner happas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% 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

3rd July, 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 4th to 8th July, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (29th June to 2nd July, 2018) Observed 8.1 mm rainfall with mainly cloudy sky during past four days but partly cloudy during afternoon hours of 30th June. Maximum temperature recorded ranged from 27.9 to 29.0 °C and minimum of 21.5 to 22.7 °C with mean relative humidity 82.0 % max and 70.0 % min was recorded in the past four days with average wind speed was 2.6 – 7.2 km/ hr.</p>	<p>Weather forecast for next five days of Imphal East (4th to 8th July, 2018) Likely to have light to moderate rains upto Sunday and mainly cloudy to overcast sky with maximum temp. 29-31 °C & minimum temp. 23-25 °C. Relative humidity may reach upto 99 % (max RH) & 96 % (min RH). The average wind speed may be 2 km/hr.</p>
---	---

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting stage (Pre-kharif rice)		- Drain out excess water from the field if accumulated due to rains. - Drain the water in fields nearly 10-15 days before the expected harvest date. - Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. - If the crop is in ready to harvest stage then harvest it before rains.
	Nursery and transplanting (Kharif rice)		- 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting). - Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting.
Kharif Maize	Vegetative		- For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. - Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		- Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. - Monitor for insect pest infestation.
Blackgram/ Rice Bean	Vegetative		- Weeding may be done after rain if the weed population is high. - Monitor for insect pest infestation.
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 properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Citrus			Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. - Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthraxnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting		Spray Zineb @ 2g/lit of water.
Cauliflower (Early)	Land preparation to nursery sowing		- Prepare raised nursery bed with temporary rain shed and drain out excess water near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Till germination the cover bed with paddy straw.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



Turmeric	Vegetative	Leaf Spot and leaf blotch	- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures against Leaf Spot and leaf blotch after the rain.
Colocassia	Vegetative	Leaf blight	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.

Animal Sciences

* Provide clean drinking water for birds and animals. Drainage may be constructed well around the birds or animals sheds to avoid water logging.

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised 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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Management	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
		• 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. do it in this month.
		• Fascioliosis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. • Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		• 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/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.

Fishery

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.
	Hatcheries	water	Hatching can be done in traditional happas having outer & inner happas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.

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