



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



MANIPUR BULLETIN

19th June, 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 20th to 24th June, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (15th to 18th June, 2018) Observed 21.8 mm rainfall with mainly cloudy to overcast sky but mainly clear to partly cloudy sky on 17th and 18th morning. Maximum temperature recorded ranged from 26.7 to 30.4 °C and minimum of 20.8 to 21.6 °C with mean relative humidity 89.5 % max and 67.3 % min was recorded in the past three days with average wind speed was 3.8 – 6.1 km/ hr.</p>	<p>Weather forecast for next five days of Bishnupur (20th to 24th June, 2018) Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 30-32 °C & minimum temp. 23-24 °C. Relative humidity may reach upto 100 % (max RH) & 67 % (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	Grain filling stage (Pre-kharif rice)	Bacterial leaf blight	- Construct bands around the crop field to maintain water level at 5-8 cm. - Drain out excess water from the field accumulated due to heavy rains. - Spray Streptocycline @ 1gm/15 litres of water.
		Sheath blight/ sheath rot	- Apply Propiconazole @ 15ml/ 15 litres water after rains.
	Nursery and land preparation of main field (Kharif rice)		- Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou-13. Raise rice nursery. - Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. - Land preparation of main field may be done for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Vegetative		- Sowing may be done. - For the crops in vegetative phase, weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha.
Soybean	Sowing		- Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. -Weeding may be done if the weed population is high.
Groundnut	Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Weeding may be done if the weed population is high.
Blackgram/ Rice Bean	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest. Weeding may be done if the weed population is high.
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
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.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Colocassia	Vegetative		- Weeding and earthing up may be done after the wet spell. - Avoid water logging. - 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.
Chilli/ capsicum	Flowering and fruiting to		- In chillies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%



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



	harvesting		WP) @ 2 g/ litre of water to control the fungal attack after rains.
Cowpea	Sowing		<ul style="list-style-type: none"> - Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. - Recommended varieties: Yard long bean & Pusa Barsati.

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.
		• Management	<ul style="list-style-type: none"> • 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.
		• Management	<ul style="list-style-type: none"> • Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	<ul style="list-style-type: none"> • 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.
	Carp diseases	Argulus (fish lice) infection	
EUS (Epizostic Ulcerative Syndrome)			- Spray CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS infected fishes.

(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

19th June, 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 20th to 24th June, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (15th to 18th June, 2018) Observed 21.8 mm rainfall with mainly cloudy to overcast sky but mainly clear to partly cloudy sky on 17th and 18th morning. Maximum temperature recorded ranged from 26.7 to 30.4 °C and minimum of 20.8 to 21.6 °C with mean relative humidity 89.5 % max and 67.3 % min was recorded in the past three days with average wind speed was 3.8 – 6.1 km/ hr.</p>	<p>Weather forecast for next five days of Chandel (20th to 24th June, 2018) Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 29-30 °C & minimum temp. 19-21 °C. Relative humidity may reach upto 97 % (max RH) & 59 % (min RH). The average wind speed may be 3-4 km/hr.</p>
---	---

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Grain filling stage (Pre-kharif rice)	Bacterial leaf blight	- Construct bands around the crop field to maintain water level at 5-8 cm. - Drain out excess water from the field accumulated due to heavy rains.
		Sheath blight/ sheath rot	- Spray Streptocycline @ 1gm/15 litres of water. - Apply Propiconazole @ 15ml/ 15 litres water after rains.
	Nursery and land preparation of main field (Kharif rice)		- Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou-13. Raise rice nursery. - Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. - Land preparation of main field may be done for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Vegetative		- Sowing may be done. - For the crops in vegetative phase, weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha.
Soybean	Sowing		- Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. -Weeding may be done if the weed population is high.
Groundnut	Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Weeding may be done if the weed population is high.
Blackgram/ Rice Bean	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest. Weeding may be done if the weed population is high.
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
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.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Colocassia	Vegetative		- Weeding and earthing up may be done after the wet spell. - Avoid water logging. - 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.
Chilli/ capsicum	Flowering and fruiting to		- In chillies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%



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



	harvesting		WP) @ 2 g/ litre of water to control the fungal attack after rains.
Cowpea	Sowing		<ul style="list-style-type: none"> - Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. - Recommended varieties: Yard long bean & Pusa Barsati.

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.
		• Management	<ul style="list-style-type: none"> • 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.
		• Management	<ul style="list-style-type: none"> • Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	<ul style="list-style-type: none"> • 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.
	Carp diseases	Argulus (fish lice) infection	
EUS (Epizostic Ulcerative Syndrome)			- Spray CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS infected fishes.

(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

19th June, 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 20th to 24th June, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (15th to 18th June, 2018) Observed 21.8 mm rainfall with mainly cloudy to overcast sky but mainly clear to partly cloudy sky on 17th and 18th morning. Maximum temperature recorded ranged from 26.7 to 30.4 °C and minimum of 20.8 to 21.6 °C with mean relative humidity 89.5 % max and 67.3 % min was recorded in the past three days with average wind speed was 3.8 – 6.1 km/ hr.</p>	<p>Weather forecast for next five days of Churachandpur (20th to 24th June, 2018) Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 31 °C & minimum temp. 22-24 °C. Relative humidity may reach upto 100 % (max RH) & 64 % (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	Grain filling stage (Pre-kharif rice)	Bacterial leaf blight	- Construct bands around the crop field to maintain water level at 5-8 cm. - Drain out excess water from the field accumulated due to heavy rains. - Spray Streptocycline @ 1gm/15 litres of water.
		Sheath blight/ sheath rot	- Apply Propiconazole @ 15ml/ 15 litres water after rains.
	Nursery and land preparation of main field (Kharif rice)		- Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou-13. Raise rice nursery. - Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. - Land preparation of main field may be done for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Vegetative		- Sowing may be done. - For the crops in vegetative phase, weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha.
Soybean	Sowing		- Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. -Weeding may be done if the weed population is high.
Groundnut	Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Weeding may be done if the weed population is high.
Blackgram/ Rice Bean	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest. Weeding may be done if the weed population is high.
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
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.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Colocassia	Vegetative		- Weeding and earthing up may be done after the wet spell. - Avoid water logging. - 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.
Chilli/ capsicum	Flowering and fruiting to		- In chillies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%



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



Cowpea	harvesting		WP) @ 2 g/ litre of water to control the fungal attack after rains.
	Sowing		<ul style="list-style-type: none"> - Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. - Recommended varieties: Yard long bean & Pusa Barsati.

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.
		• Management	<ul style="list-style-type: none"> • 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.
		• Management	<ul style="list-style-type: none"> • Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	<ul style="list-style-type: none"> • 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.
	Carp diseases	Argulus (fish lice) infection	
EUS (Epizostic Ulcerative Syndrome)			- Spray CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS infected fishes.

(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

19th June, 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 20th to 24th June, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (15th to 18th June, 2018) Observed 21.8 mm rainfall with mainly cloudy to overcast sky but mainly clear to partly cloudy sky on 17th and 18th morning. Maximum temperature recorded ranged from 26.7 to 30.4 °C and minimum of 20.8 to 21.6 °C with mean relative humidity 89.5 % max and 67.3 % min was recorded in the past three days with average wind speed was 3.8 – 6.1 km/ hr.</p>	<p>Weather forecast for next five days of Imphal East (20th to 24th June, 2018) Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 30-31 °C & minimum temp. 23-24 °C. Relative humidity may reach upto 99 % (max RH) & 60 % (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	Grain filling stage (Pre-kharif rice)	Bacterial leaf blight	- Construct bands around the crop field to maintain water level at 5-8 cm. - Drain out excess water from the field accumulated due to heavy rains. - Spray Streptocycline @ 1gm/15 litres of water.
		Sheath blight/ sheath rot	- Apply Propiconazole @ 15ml/ 15 litres water after rains.
	Nursery and land preparation of main field (Kharif rice)		- Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou-13. Raise rice nursery. - Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. - Land preparation of main field may be done for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Vegetative		- Sowing may be done. - For the crops in vegetative phase, weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha.
Soybean	Sowing		- Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. -Weeding may be done if the weed population is high.
Groundnut	Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Weeding may be done if the weed population is high.
Blackgram/ Rice Bean	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest. Weeding may be done if the weed population is high.
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
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.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Colocassia	Vegetative		- Weeding and earthing up may be done after the wet spell. - Avoid water logging. - 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.
Chilli/ capsicum	Flowering and fruiting to		- In chillies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%



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



Cowpea	harvesting		WP) @ 2 g/ litre of water to control the fungal attack after rains.
	Sowing		<ul style="list-style-type: none"> - Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. - Recommended varieties: Yard long bean & Pusa Barsati.

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.
		• Management	<ul style="list-style-type: none"> • 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.
		• Management	<ul style="list-style-type: none"> • Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	<ul style="list-style-type: none"> • 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.
	Carp diseases	Argulus (fish lice) infection	
EUS (Epizostic Ulcerative Syndrome)			- Spray CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS infected fishes.

(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

19th June, 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 20th to 24th June, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (15th to 18th June, 2018) Observed 21.8 mm rainfall with mainly cloudy to overcast sky but mainly clear to partly cloudy sky on 17th and 18th morning. Maximum temperature recorded ranged from 26.7 to 30.4 °C and minimum of 20.8 to 21.6 °C with mean relative humidity 89.5 % max and 67.3 % min was recorded in the past three days with average wind speed was 3.8 – 6.1 km/ hr.</p>	<p>Weather forecast for next five days of Imphal West (20th to 24th June, 2018) Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 30-32 °C & minimum temp. 23-24 °C. Relative humidity may reach upto 100 % (max RH) & 78 % (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	Grain filling stage (Pre-kharif rice)	Bacterial leaf blight	- Construct bands around the crop field to maintain water level at 5-8 cm. - Drain out excess water from the field accumulated due to heavy rains. - Spray Streptocycline @ 1gm/15 litres of water.
		Sheath blight/ sheath rot	- Apply Propiconazole @ 15ml/ 15 litres water after rains.
	Nursery and land preparation of main field (Kharif rice)		- Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou-13. Raise rice nursery. - Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. - Land preparation of main field may be done for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Vegetative		- Sowing may be done. - For the crops in vegetative phase, weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha.
Soybean	Sowing		- Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. -Weeding may be done if the weed population is high.
Groundnut	Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Weeding may be done if the weed population is high.
Blackgram/ Rice Bean	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest. Weeding may be done if the weed population is high.
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
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.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Colocassia	Vegetative		- Weeding and earthing up may be done after the wet spell. - Avoid water logging. - 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.
Chilli/ capsicum	Flowering and fruiting to		- In chillies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%



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



Cowpea	harvesting		WP) @ 2 g/ litre of water to control the fungal attack after rains.
	Sowing		<ul style="list-style-type: none"> - Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. - Recommended varieties: Yard long bean & Pusa Barsati.

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.
		• Management	<ul style="list-style-type: none"> • 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.
		• Management	<ul style="list-style-type: none"> • Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	<ul style="list-style-type: none"> • 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.
	Carp diseases	Argulus (fish lice) infection	
EUS (Epizostic Ulcerative Syndrome)			- Spray CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS infected fishes.

(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

19th June, 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 20th to 24th June, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (15th to 18th June, 2018) Observed 21.8 mm rainfall with mainly cloudy to overcast sky but mainly clear to partly cloudy sky on 17th and 18th morning. Maximum temperature recorded ranged from 26.7 to 30.4 °C and minimum of 20.8 to 21.6 °C with mean relative humidity 89.5 % max and 67.3 % min was recorded in the past three days with average wind speed was 3.8 – 6.1 km/ hr.</p>	<p>Weather forecast for next five days of Senapati (20th to 24th June, 2018) Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 28-29 °C & minimum temp. 19-20 °C. Relative humidity may reach upto 100 % (max RH) & 67 % (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	Grain filling stage (Pre-kharif rice)	Bacterial leaf blight	- Construct bands around the crop field to maintain water level at 5-8 cm. - Drain out excess water from the field accumulated due to heavy rains. - Spray Streptocycline @ 1gm/15 litres of water.
		Sheath blight/ sheath rot	- Apply Propiconazole @ 15ml/ 15 litres water after rains.
	Nursery and land preparation of main field (Kharif rice)		- Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou-13. Raise rice nursery. - Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. - Land preparation of main field may be done for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Vegetative		- Sowing may be done. - For the crops in vegetative phase, weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha.
Soybean	Sowing		- Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. -Weeding may be done if the weed population is high.
Groundnut	Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Weeding may be done if the weed population is high.
Blackgram/ Rice Bean	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest. Weeding may be done if the weed population is high.
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
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Colocassia	Vegetative		- Weeding and earthing up may be done after the wet spell. - Avoid water logging. - 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.
Cowpea	Sowing		- Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing.



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



- Recommended varieties: Yard long bean & Pusa Barsati.

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.
		• 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.
		• 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.
	Carp diseases	Argulus (fish lice) infection	
EUS (Epizostic Ulcerative Syndrome)			- Spray CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS infected fishes.

(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

19th June, 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 20th to 24th June, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (15th to 18th June, 2018) Observed 21.8 mm rainfall with mainly cloudy to overcast sky but mainly clear to partly cloudy sky on 17th and 18th morning. Maximum temperature recorded ranged from 26.7 to 30.4 °C and minimum of 20.8 to 21.6 °C with mean relative humidity 89.5 % max and 67.3 % min was recorded in the past three days with average wind speed was 3.8 – 6.1 km/ hr.</p>	<p>Weather forecast for next five days of Tamenglong (20th to 24th June, 2018) Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 28-29 °C & minimum temp. 19-21 °C. Relative humidity may reach upto 100 % (max RH) & 73 % (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	Grain filling stage (Pre-kharif rice)	Bacterial leaf blight	- Construct bands around the crop field to maintain water level at 5-8 cm. - Drain out excess water from the field accumulated due to heavy rains. - Spray Streptocycline @ 1gm/15 litres of water.
		Sheath blight/ sheath rot	- Apply Propiconazole @ 15ml/ 15 litres water after rains.
	Nursery and land preparation of main field (Kharif rice)		- Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou-13. Raise rice nursery. - Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. - Land preparation of main field may be done for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Vegetative		- Sowing may be done. - For the crops in vegetative phase, weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha.
Soybean	Sowing		- Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. -Weeding may be done if the weed population is high.
Groundnut	Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Weeding may be done if the weed population is high.
Blackgram/ Rice Bean	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest. Weeding may be done if the weed population is high.
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
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.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Colocassia	Vegetative		- Weeding and earthing up may be done after the wet spell. - Avoid water logging. - 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.
Chilli/ capsicum	Flowering and fruiting to		- In chillies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%



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



Cowpea	harvesting		WP) @ 2 g/ litre of water to control the fungal attack after rains.
	Sowing		<ul style="list-style-type: none"> - Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. - Recommended varieties: Yard long bean & Pusa Barsati.

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.
		• Management	<ul style="list-style-type: none"> • 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.
		• Management	<ul style="list-style-type: none"> • Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	<ul style="list-style-type: none"> • 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.
	Carp diseases	Argulus (fish lice) infection	
EUS (Epizostic Ulcerative Syndrome)			- Spray CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS infected fishes.

(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****19th June, 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 20th to 24th June, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (15th to 18th June, 2018) Observed 21.8 mm rainfall with mainly cloudy to overcast sky but mainly clear to partly cloudy sky on 17th and 18th morning. Maximum temperature recorded ranged from 26.7 to 30.4 °C and minimum of 20.8 to 21.6 °C with mean relative humidity 89.5 % max and 67.3 % min was recorded in the past three days with average wind speed was 3.8 – 6.1 km/ hr.</p>	<p>Weather forecast for next five days of Thoubal (20th to 24th June, 2018) Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 30-32 °C & minimum temp. 23-24 °C. Relative humidity may reach upto 100 % (max RH) & 79 % (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	Grain filling stage (Pre-kharif rice)	Bacterial leaf blight	- Construct bands around the crop field to maintain water level at 5-8 cm. - Drain out excess water from the field accumulated due to heavy rains.
		Sheath blight/ sheath rot	- Spray Streptocycline @ 1gm/15 litres of water. - Apply Propiconazole @ 15ml/ 15 litres water after rains.
	Nursery and land preparation of main field (Kharif rice)		- Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou-13. Raise rice nursery. - Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. - Land preparation of main field may be done for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Vegetative		- Sowing may be done. - For the crops in vegetative phase, weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha.
Soybean	Sowing		- Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. -Weeding may be done if the weed population is high.
Groundnut	Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Weeding may be done if the weed population is high.
Blackgram/ Rice Bean	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest. Weeding may be done if the weed population is high.
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
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.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Colocassia	Vegetative		- Weeding and earthing up may be done after the wet spell. - Avoid water logging. - 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.
Chilli/ capsicum	Flowering and fruiting to		- In chillies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%



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



Cowpea	harvesting		WP) @ 2 g/ litre of water to control the fungal attack after rains.
	Sowing		<ul style="list-style-type: none"> - Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. - Recommended varieties: Yard long bean & Pusa Barsati.

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.
		• Management	<ul style="list-style-type: none"> • 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.
		• Management	<ul style="list-style-type: none"> • Breeding must be advocated continuously. • Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones	• Vaccination	<ul style="list-style-type: none"> • 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.
	Carp diseases	Argulus (fish lice) infection	
EUS (Epizostic Ulcerative Syndrome)			- Spray CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS infected fishes.

(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

19th June, 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 20th to 24th June, 2018 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (15th to 18th June, 2018) Observed 21.8 mm rainfall with mainly cloudy to overcast sky but mainly clear to partly cloudy sky on 17th and 18th morning. Maximum temperature recorded ranged from 26.7 to 30.4 °C and minimum of 20.8 to 21.6 °C with mean relative humidity 89.5 % max and 67.3 % min was recorded in the past three days with average wind speed was 3.8 – 6.1 km/ hr.</p>	<p>Weather forecast for next five days of Ukhrul (20th to 24th June, 2018) Likely to have light rains during next five days and partly cloudy to mainly cloudy sky with maximum temp. 28-29 °C & minimum temp. 19-20 °C. Relative humidity may reach upto 98 % (max RH) & 61 % (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	Grain filling stage (Pre-kharif rice)	Bacterial leaf blight	- Construct bands around the crop field to maintain water level at 5-8 cm. - Drain out excess water from the field accumulated due to heavy rains.
		Sheath blight/ sheath rot	- Spray Streptocycline @ 1gm/15 litres of water. - Apply Propiconazole @ 15ml/ 15 litres water after rains.
	Nursery and land preparation of main field (Kharif rice)		- Recommended varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou-13. Raise rice nursery. - Encircle the nursery plot with happa after sowing at least for 10 days so that the seeds are not carried away if water level increases due to rains. - Land preparation of main field may be done for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Vegetative		- Sowing may be done. - For the crops in vegetative phase, weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha.
Soybean	Sowing		- Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. -Weeding may be done if the weed population is high.
Groundnut	Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Weeding may be done if the weed population is high.
Blackgram/ Rice Bean	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest. Weeding may be done if the weed population is high.
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
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Colocassia	Vegetative		- Weeding and earthing up may be done after the wet spell. - Avoid water logging. - 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.
Cowpea	Sowing		- Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing.



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



- Recommended varieties: Yard long bean & Pusa Barsati.

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.
		• 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.
		• 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.
	Carp diseases	Argulus (fish lice) infection	
EUS (Epizostic Ulcerative Syndrome)			- Spray CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS infected fishes.

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