

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

MANIPUR BULLETIN

8th June, 2018

E-mail: agromet_mnp@yahoo.co.uk

<u>Bishnupur</u>

| Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 7 th June, 2018) | Weather forecast for next five days of Bishnupur (9 th to 13 th June, 2018) |
|--|--|
| Observed 14.6 mm rainfall with mainly cloudy to overcast | |
| sky . Maximum temperature recorded ranged from 28.8 to 33.0 °C and minimum of 21.4 to 22.0 °C with mean relative humidity 94.0 % max and 68.0 % min was recorded in the past four days with average wind speed was 2.3- 2.7 km/ hr. | Likely to have widespread heavy rains from Saturday to Wednesday and mainly cloudy to overcast sky with maximum temp. 28-32 °C & minimum temp. 20-24 °C. Relative humidity may reach up to 100 % (Max) and 88 % (Min). The average wind speed may be 2 km/hr . |

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|-------------------------|----------------------------|------------------|--|
| | Panicle initiation | | - Maintain water level at 5-8 cm. |
| | to flowering (Pre- | | - Make proper drainage system to drain out excess water due to heavy rains. |
| | kharif rice) | Sheath blight/ | - Apply Propiconazole @ 15ml/ 15 litres water after rains. |
| | | sheath rot | |
| Rice | Nursery and land | | - Raise kharif rice nursery after rains. Varieties: RC Maniphou-7, RC Maniphou- |
| | preparation of | | 10 and RC Maniphou- 13. |
| | main field | | - Land preparation of main field may be done after rains for transplanting rice |
| | (Kharif 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 | Sowing | | - Sowing may be done after rains. |
| Soybean | Sowing | | - Sow seed after rains @ 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. |
| Groundnut | Sowing | | - Seed rate is 100 - 110 kg/ha and the recommended varieties are ICGS-75 & JL- |
| | | | 24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with |
| | | | Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. |
| Blackgram/ Rice | Sowing | | - Sowing may be done after rains by broadcasting or dibbling. Plot must be kept |
| Bean | | | weed free to avoid insect/ pest. |
| | | | For seed purpose store the seeds in RC-Seed Bin after proper drying and |
| | Post harvest | | cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for |
| Seeds storage | management | | moisture content or weight of charcoal and dry if required. |
| | | | For grains, store grains in well ventilated godowns after drying properly. Spray |
| | | | Malathion 1% on the walls of stores. |
| Horticulture Crops | | | |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Cucurbits | Flowering, | | - Proper staking system must be made to avoid fruits from touching soil. |
| | Fruiting and | | - Harvest mature crops before rains. |
| | Harvesting | | |
| Ginger/ Turmeric | Vegetative | Leaf Spot | To prevent Leaf Spot disease, after rains apply Bordeaux mixture (5:5:50) after 4 |
| | | | - 5 weeks of sowing or Captan @ 1.5 g/l of water. |
| ~ | | | - Avoid water logging. |
| Colocassia | Vegetative | | - Weeding and earthing up may be done after the wet spell. |
| | | | - Avoid water logging. |
| | | | - After rains, 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg |
| | | | SSP/ sangam. Prophylactic measures against leaf blight should be taken up. |
| | | | Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or three at 10 days interpol after this and reall |
| Chilli/ and signature | Flowering and | | thrice at 10 days interval after this wet spell. In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%) |
| Chilli/ capsicum | fruiting to | | - In chilles and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 65% WP) @ 2 g/ litre of water to control the fungal attack after rains. |
| | harvesting | | - Harvest mature crops before rains. |
| Tomoto | Fruiting to | | - Harvest mature crops before rains. |
| Tomato | harvesting | | - Avoid water logging. |
| | narvesung | | - Avoid water logging. |





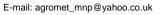
| Animal Science | | | | |
|-------------------------------|---|--|---|--|
| | | | | e constructed well around the birds or animals sheds to avoid water logging. |
| Name of bird/ animal | Stage | Disease an Managem | | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All age groups | • Ranikhet 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 Levamizole 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 repellant must be used in the premises of the sheds. Protect from thunder showers. Protect from after winds (loo). |
| Pig | Pig All age groups | | | De-worm with Albendazole @7.5 mg/kg b.wt. |
| except the young | | De-worming Skin disease | | • Sprayer of <i>Anti-Psoroptic</i> may be used. |
| | ones | 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 Care & Management | | • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight. |
| | | | | • Mixture of mineral/ salts should be added in the feed/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 heig | ht to avoid | escape of fishes. |
| Type of Farming | Stage | Management | _ | etrological advisories |
| Carp culture | Breeding | pond | | nones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <i>ml/kg</i> of fish. |
| | Hatcheries | water | hatcherie | can be done in traditional happas having outer & inner happas or circular s. A mild current with fine shower is needed for circular hatcheries. Feed should ven for 3 days. |
| | Nurseries | ponds | Stock 20-30 lakhs spawns in one hectare water. Water depth should be more Feeding should be given @5-10% body weight/day. | |
| | Carp diseases | Carp diseases Argulus (fish lice) infection KM - T | | e all the fishes and give a bath treatment for 15 min per day in a solution of 1g (Potassium permanganate) in 10 litres of water for 5-7 days. ne hectare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste |
| | | EUS (Epizostic Ulcerative Syndrome) | soaked overnight. - Spray CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS i fishes. | |

SMS:

Lakliba Yumjakeisa faoba akanba nong churaba yai. Loufamda ishing thumjindanaba louri loukhong semjinbiyu. Louhon nouna hunkhiba loufamgi akoibada happa net khabiduna mara chetriba phoudi ishing na chenthakhidanaba semjinbiyu. Nga-yok pukhridagi nga chenthokhidanaba happa net khajinbiyu.



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





MANIPUR BULLETIN

8th June, 2018

<u>Chandel</u>

| Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 7 th June, 2018) | Weather forecast for next five days of Chandel (9 th to 13 th June, 2018) |
|--|---|
| Observed 14.6 mm rainfall with mainly cloudy to overcast | |
| sky . Maximum temperature recorded ranged from 28.8 to 33.0 °C and minimum of 21.4 to 22.0 °C with mean relative humidity 94.0 % max and 68.0 % min was recorded in the past four days with average wind speed was 2.3- 2.7 km/ hr. | Likely to have widespread heavy rains from Saturday to Wednesday and mainly cloudy to overcast sky with maximum temp. 27-30 °C & minimum temp. 20-22 °C. Relative humidity may reach up to 100 % (Max) and 92% (Min). The average wind speed may be 2-3 |
| | km/hr. |

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|-------------------------|--|------------------|--|
| nume of the crop | Panicle initiation to flowering (Pre- kharif rice) | Sheath blight/ | Maintain water level at 5-8 cm. Make proper drainage system to drain out excess water due to heavy rains. Apply Propiconazole @ 15ml/ 15 litres water after rains. |
| Rice | Nursery and land preparation of main field (Kharif rice) | sneath rot | Raise kharif rice nursery after rains. Varieties: RC Maniphou-7, RC Maniphou-10 and RC Maniphou-13. Land preparation of main field may be done after rains 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 | Sowing | | - Sowing may be done after rains. |
| Soybean | Sowing | | - Sow seed after rains @ 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. |
| Groundnut | Sowing | | - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL- 24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. |
| Blackgram/ Rice Bean | Sowing | | - Sowing may be done after rains by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest. |
| Seeds storage | Post harvest management | | For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores. |
| Horticulture Crops | | | |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Cucurbits | Flowering, Fruiting and Harvesting | | Proper staking system must be made to avoid fruits from touching soil. Harvest mature crops before rains. |
| Ginger/ Turmeric | Vegetative | Leaf Spot | To prevent Leaf Spot disease, after rains apply Bordeaux mixture (5:5:50) after 4 - 5 weeks of sowing or Captan @ 1.5 g/l of water. - Avoid water logging. |
| Colocassia | Vegetative | | Weeding and earthing up may be done after the wet spell. Avoid water logging. After rains, 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/ sangam. 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 harvesting | | In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. Harvest mature crops before rains. |
| Tomato | Fruiting to harvesting | | Harvest mature crops before rains.Avoid water logging. |





| Animal Science | | | | |
|-------------------------------|---|--|---|--|
| | | | | e constructed well around the birds or animals sheds to avoid water logging. |
| Name of bird/ animal | Stage | Disease an Managem | | 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 Levamizole 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 repellant must be used in the premises of the sheds. Protect from thunder showers. Protect from after winds (loo). |
| Pig | Pig All age groups | | | De-worm with Albendazole @7.5 mg/kg b.wt. |
| except the young | | De-worming Skin disease | | • Sprayer of <i>Anti-Psoroptic</i> may be used. |
| | ones | 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 Care & Management | | • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight. |
| | | | | • Mixture of mineral/ salts should be added in the feed/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 heig | ht to avoid | escape of fishes. |
| Type of Farming | Stage | Management | _ | etrological advisories |
| Carp culture | Breeding | pond | | nones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <i>ml/kg</i> of fish. |
| | Hatcheries | water | hatcherie | can be done in traditional happas having outer & inner happas or circular s. A mild current with fine shower is needed for circular hatcheries. Feed should ven for 3 days. |
| | Nurseries | ponds | Stock 20-30 lakhs spawns in one hectare water. Water depth should be more Feeding should be given @5-10% body weight/day. | |
| | Carp diseases | Carp diseases Argulus (fish lice) infection KM - T | | e all the fishes and give a bath treatment for 15 min per day in a solution of 1g (Potassium permanganate) in 10 litres of water for 5-7 days. ne hectare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste |
| | | EUS (Epizostic Ulcerative Syndrome) | soaked overnight. - Spray CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS i fishes. | |

SMS:

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MANIPUR BULLETIN

8th June, 2018

Churachandpur

| Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 7 th June, 2018) | Weather forecast for next five days of Churachandpur (9 th to 13 th June, 2018) |
|---|--|
| Observed 14.6 mm rainfall with mainly cloudy to overcast | Likely to have wideenneed because sine from Setunday to Wedneeday. |
| sky . Maximum temperature recorded ranged from 28.8 to 33.0 °C and minimum of 21.4 to 22.0 °C with mean relative | Likely to have widespread heavy rains from Saturday to Wednesday and mainly cloudy to overcast sky with maximum temp. 28-31 °C |
| humidity 94.0 % max and 68.0 % min was recorded in the | & minimum temp. 21-23 °C. Relative humidity may reach up to |
| past four days with average wind speed was 2.3- 2.7 km/ hr. | 100 % (Max) and 86 % (Min). The average wind speed may be 0-2 km/hr. |

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|-------------------------|--|------------------|--|
| | Daniala initiation | | - Maintain water level at 5-8 cm. |
| | Panicle initiation | | - Make proper drainage system to drain out excess water due to heavy rains. |
| | to flowering (Pre- kharif rice) | Sheath blight/ | - Apply Propiconazole @ 15ml/ 15 litres water after rains. |
| | Kharli rice) | sheath rot | |
| | | | - Raise kharif rice nursery after rains. Varieties: RC Maniphou-7, RC Maniphou |
| Rice | NT 11 1 | | 10 and RC Maniphou- 13. |
| | Nursery and land | | - Especially, encircle the rice nursery plot in which seedlings has not attained 7 |
| | preparation of main field | | 10 days. |
| | | | - Land preparation of main field may be done after rains for transplanting ric |
| | (Kharif 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 | Sowing | | - Sowing may be done after rains. |
| Soybean | Sowing | | - Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the |
| Soysean | 0 | | 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. |
| Groundnut | Sowing | | - Seed rate is 100 - 110 kg/ha and the recommended varieties are ICGS-75 & JL |
| | U | | 24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with |
| | | | Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. |
| Blackgram/ Rice | Sowing | | - Sowing may be done after rains by broadcasting or dibbling. Plot must be kep |
| Bean | - | | weed free to avoid insect/ pest. |
| | | | For seed purpose store the seeds in RC-Seed Bin after proper drying and |
| | Post harvest | | cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for |
| Seeds storage | management | | moisture content or weight of charcoal and dry if required. |
| 0 | | | 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 |
| Cucurbits | Flowering, | | - Proper staking system must be made to avoid fruits from touching soil. |
| | Fruiting and | | - Harvest mature crops before rains. |
| | Harvesting | | |
| Ginger/ Turmeric | Vegetative | Leaf Spot | To prevent Leaf Spot disease, after rains apply Bordeaux mixture (5:5:50) after |
| 0 | | | - 5 weeks of sowing or Captan @ 1.5 g/l of water. |
| | | | - Avoid water logging. |
| Colocassia | Vegetative | | - Weeding and earthing up may be done after the wet spell. |
| | | | - Avoid water logging. |
| | | | - After rains, 45-50 days old plants may be top dressed with 4.5kg Urea + 156k |
| | | | SSP/ sangam. Prophylactic measures against leaf blight should be taken up |
| | | | Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice o |
| | | | thrice at 10 days interval after this wet spell. |
| Chilli/ capsicum | Flowering and | | - In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% |
| - | fruiting to | | WP) @ 2 g/ litre of water to control the fungal attack after rains. |
| | harvesting | | - Harvest mature crops before rains. |
| Tomato | Fruiting to | | - Harvest mature crops before rains. |

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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



- Avoid water logging.









| Animal Science | | | | |
|-------------------------------|---|--|---|--|
| | | | | e constructed well around the birds or animals sheds to avoid water logging. |
| Name of bird/ animal | Stage | Disease an Managem | | 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 Levamizole 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 repellant must be used in the premises of the sheds. Protect from thunder showers. Protect from after winds (loo). |
| Pig | Pig All age groups | | | De-worm with Albendazole @7.5 mg/kg b.wt. |
| except the young | | De-worming Skin disease | | • Sprayer of <i>Anti-Psoroptic</i> may be used. |
| | ones | 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 Care & Management | | • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight. |
| | | | | • Mixture of mineral/ salts should be added in the feed/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 heig | ht to avoid | escape of fishes. |
| Type of Farming | Stage | Management | _ | etrological advisories |
| Carp culture | Breeding | pond | | nones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <i>ml/kg</i> of fish. |
| | Hatcheries | water | hatcherie | can be done in traditional happas having outer & inner happas or circular s. A mild current with fine shower is needed for circular hatcheries. Feed should ven for 3 days. |
| | Nurseries | ponds | Stock 20-30 lakhs spawns in one hectare water. Water depth should be more Feeding should be given @5-10% body weight/day. | |
| | Carp diseases | Carp diseases Argulus (fish lice) infection KM - T | | e all the fishes and give a bath treatment for 15 min per day in a solution of 1g (Potassium permanganate) in 10 litres of water for 5-7 days. ne hectare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste |
| | | EUS (Epizostic Ulcerative Syndrome) | soaked overnight. - Spray CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS i fishes. | |

SMS:

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



MANIPUR BULLETIN

8th June, 2018

Imphal East

| Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 7 th June, 2018) | Weather forecast for next five days of Imphal East (9 th to 13 th June, 2018) |
|--|---|
| Observed 14.6 mm rainfall with mainly cloudy to overcast sky . Maximum temperature recorded ranged from 28.8 to 33.0 °C and minimum of 21.4 to 22.0 °C with mean relative humidity 94.0 % max and 68.0 % min was recorded in the past four days with average wind speed was 2.3- 2.7 km/ hr. | Likely to have widespread heavy rains from Saturday during next five days and mainly cloudy to overcast sky with maximum temp. 28-31 °C & minimum temp. 21-23 °C. Relative humidity may reach up to 99 % (Max) and 94 % (Min). The average wind speed may be 2 km/hr . |

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|--------------------|----------------------------|------------------|---|
| | Panicle initiation | | - Maintain water level at 5-8 cm. |
| | to flowering (Pre- | | - Make proper drainage system to drain out excess water due to heavy rains. |
| | kharif rice) | Sheath blight/ | - Apply Propiconazole @ 15ml/ 15 litres water after rains. |
| | Kilar II Tice) | sheath rot | |
| Rice | Nursery and land | | - Raise kharif rice nursery after rains. Varieties: RC Maniphou-7, RC Maniphou- |
| | preparation of | | 10 and RC Maniphou- 13. |
| | main field | | - Land preparation of main field may be done after rains for transplanting rice |
| | (Kharif rice) | | seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and |
| | (Islian nee) | | 45 kg MOP per hectare at the time of final leveling before transplanting. |
| Kharif Maize | Sowing | | - Sowing may be done after rains. |
| Soybean | Sowing | | - Sow seed after rains @ 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. |
| Groundnut | Sowing | | - Seed rate is $100 - 110$ kg/ha and the recommended varieties are ICGS-75 & JL- |
| | | | 24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with |
| | | | Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. |
| Blackgram/ Rice | Sowing | | - Sowing may be done after rains by broadcasting or dibbling. Plot must be kept |
| Bean | | | weed free to avoid insect/ pest. |
| | | | For seed purpose store the seeds in RC-Seed Bin after proper drying and |
| | Post harvest | | cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for |
| Seeds storage | management | | moisture content or weight of charcoal and dry if required. |
| | | | For grains, store grains in well ventilated godowns after drying properly. Spray |
| | | | Malathion 1% on the walls of stores. |
| Horticulture Crops | | | |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Cucurbits | Flowering, | | - Proper staking system must be made to avoid fruits from touching soil. |
| | Fruiting and | | - Harvest mature crops before rains. |
| | Harvesting | | |
| Ginger/ Turmeric | Vegetative | Leaf Spot | To prevent Leaf Spot disease, after rains apply Bordeaux mixture (5:5:50) after 4 |
| | | | - 5 weeks of sowing or Captan @ 1.5 g/l of water. |
| ~ | T T | | - Avoid water logging. |
| Colocassia | Vegetative | | - Weeding and earthing up may be done after the wet spell. |
| | | | - Avoid water logging. |
| | | | - After rains, 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg |
| | | | SSP/ sangam. Prophylactic measures against leaf blight should be taken up |
| | | | Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice of the set 10 days interval after this water and literation of the set |
| Chilli/ age signed | Flowering and | | thrice at 10 days interval after this wet spell.In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%) |
| Chilli/ capsicum | flowering and fruiting to | | - In chilles and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. |
| | harvesting | | - Harvest mature crops before rains. |
| Tomata | Fruiting to | | Harvest mature crops before rains. Harvest mature crops before rains. |
| Tomato | harvesting | | - Avoid water logging. |





| Animal Science | | | | |
|-------------------------------|---|--|---|--|
| | | | | e constructed well around the birds or animals sheds to avoid water logging. |
| Name of bird/ animal | Stage | Disease an Managem | | 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 Levamizole 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 repellant must be used in the premises of the sheds. Protect from thunder showers. Protect from after winds (loo). |
| Pig | Pig All age groups | | | De-worm with Albendazole @7.5 mg/kg b.wt. |
| except the young | | De-worming Skin disease | | • Sprayer of <i>Anti-Psoroptic</i> may be used. |
| | ones | 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 Care & Management | | • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight. |
| | | | | • Mixture of mineral/ salts should be added in the feed/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 heig | ht to avoid | escape of fishes. |
| Type of Farming | Stage | Management | _ | etrological advisories |
| Carp culture | Breeding | pond | | nones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <i>ml/kg</i> of fish. |
| | Hatcheries | water | hatcherie | can be done in traditional happas having outer & inner happas or circular s. A mild current with fine shower is needed for circular hatcheries. Feed should ven for 3 days. |
| | Nurseries | ponds | Stock 20-30 lakhs spawns in one hectare water. Water depth should be more Feeding should be given @5-10% body weight/day. | |
| | Carp diseases | Carp diseases Argulus (fish - R lice) infection KM - T | | e all the fishes and give a bath treatment for 15 min per day in a solution of 1g (Potassium permanganate) in 10 litres of water for 5-7 days. ne hectare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste |
| | | EUS (Epizostic Ulcerative Syndrome) | soaked overnight. Spray CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS i fishes. | |

SMS:

Lakliba Yumjakeisa faoba akanba nong churaba yai. Loufamda ishing thumjindanaba louri loukhong semjinbiyu. Louhon nouna hunkhiba loufamgi akoibada happa net khabiduna mara chetriba phoudi ishing na chenthakhidanaba semjinbiyu. Nga-yok pukhridagi nga chenthokhidanaba happa net khajinbiyu.



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MANIPUR BULLETIN

8th June, 2018

Imphal West

| Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 7 th June, 2018) | Weather forecast for next five days of Imphal West (9 th to 13 th June, 2018) |
|--|---|
| Observed 14.6 mm rainfall with mainly cloudy to overcast | () to 15 June, 2010) |
| sky. Maximum temperature recorded ranged from 28.8 to 33.0 | Likely to have widespread heavy rains from Saturday during next |
| °C and minimum of 21.4 to 22.0 °C with mean relative | five days and mainly cloudy to overcast sky with maximum temp. |
| humidity 94.0 % max and 68.0 % min was recorded in the | 28-31 °C & minimum temp. 21-23 °C. Relative humidity may reach |
| past four days with average wind speed was 2.3- 2.7 km/ hr. | up to 100 % . The average wind speed may be 2-3 km/hr . |
| | |

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|-------------------------|--|------------------------------|--|
| | Panicle initiation to flowering (Pre - | | Maintain water level at 5-8 cm. Make proper drainage system to drain out excess water due to heavy rains. |
| | kharif rice) | Sheath blight/ sheath rot | - Apply Propiconazole @ 15ml/ 15 litres water after rains. |
| Rice | Nursery and land preparation of main field (Kharif rice) | | Raise kharif rice nursery after rains. Varieties: RC Maniphou-7, RC Maniphou-10 and RC Maniphou-13. Land preparation of main field may be done after rains 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 | Sowing | | - Sowing may be done after rains. |
| Soybean | Sowing | | - Sow seed after rains @ 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. |
| Groundnut | Sowing | | - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL- 24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. |
| Blackgram/ Rice Bean | Sowing | | - Sowing may be done after rains by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest. |
| Seeds storage | Post harvest management | | For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores. |
| Horticulture Crops | | | · |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Cucurbits | Flowering, Fruiting and Harvesting | | Proper staking system must be made to avoid fruits from touching soil.Harvest mature crops before rains. |
| Ginger/ Turmeric | Vegetative | Leaf Spot | To prevent Leaf Spot disease, after rains apply Bordeaux mixture (5:5:50) after 4 - 5 weeks of sowing or Captan @ 1.5 g/l of water. - Avoid water logging. |
| Colocassia | Vegetative | | Weeding and earthing up may be done after the wet spell. Avoid water logging. After rains, 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/ sangam. 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 harvesting | | In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. Harvest mature crops before rains. |
| Tomato | Fruiting to harvesting | | Harvest mature crops before rains.Avoid water logging. |





| Animal Science | | | | |
|-------------------------------|---|---|---|--|
| | | | | e constructed well around the birds or animals sheds to avoid water logging. |
| Name of bird/ animal | Stage | Disease an Managem | | 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 Levamizole 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 repellant must be used in the premises of the sheds. Protect from thunder showers. Protect from after winds (loo). |
| Pig | All age groups | • De-worming | | De-worm with Albendazole @7.5 mg/kg b.wt. |
| 2 | except the young | Skin disease | | • Sprayer of <i>Anti-Psoroptic</i> may be used. |
| | ones | 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 Care & Management | | • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight. |
| | | | | • Mixture of mineral/ salts should be added in the feed/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 heig | ht to avoid | escape of fishes. |
| Type of Farming | Stage | Management | _ | etrological advisories |
| Carp culture | Breeding | pond | | nones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <i>ml/kg</i> of fish. |
| | Hatcheries | water | hatcherie | can be done in traditional happas having outer & inner happas or circular s. A mild current with fine shower is needed for circular hatcheries. Feed should ven for 3 days. |
| | Nurseries | ponds | - Stock 2 | 0-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. should be given@5-10% body weight/day. |
| | Carp diseases Argulus (fish lice) infection | | - Remove KMnO ₄ (- Treat or | e all the fishes and give a bath treatment for 15 min per day in a solution of 1g (Potassium permanganate) in 10 litres of water for 5-7 days. ne hectare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste |
| | | EUS (Epizostic Ulcerative Syndrome) | soaked overnight. - Spray CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS in fishes. | |

SMS:

Lakliba Yumjakeisa faoba akanba nong churaba yai. Loufamda ishing thumjindanaba louri loukhong semjinbiyu. Louhon nouna hunkhiba loufamgi akoibada happa net khabiduna mara chetriba phoudi ishing na chenthakhidanaba semjinbiyu. Nga-yok pukhridagi nga chenthokhidanaba happa net khajinbiyu.



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MANIPUR BULLETIN

8th June, 2018

<u>Senapati</u>

| Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 7 th June, 2018) | Weather forecast for next five days of Senapati (9 th to 13 th June, 2018) |
|---|---|
| Observed 14.6 mm rainfall with mainly cloudy to overcast | |
| sky. Maximum temperature recorded ranged from 28.8 to 33.0 | Likely to have widespread heavy rains from Saturday to Wednesday |
| ^o C and minimum of 21.4 to 22.0 ^o C with mean relative | and mainly cloudy to overcast sky with maximum temp. 26-28 °C |
| humidity 94.0 % max and 68.0 % min was recorded in the | & minimum temp. 19-20 °C. Relative humidity may reach up to |
| past four days with average wind speed was 2.3- 2.7 km/ hr. | 100 % (Max) and 98% (Min). The average wind speed may be 2-3 |
| | km/hr. |

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|-------------------------|--|------------------------------|--|
| • | | | - Maintain water level at 5-8 cm. |
| | Panicle initiation | | - Make proper drainage system to drain out excess water due to heavy rains. |
| | to flowering (Pre- kharif rice) | Sheath blight/ sheath rot | - Apply Propiconazole @ 15ml/ 15 litres water after rains. |
| Rice | Nursery and land preparation of main field (Kharif rice) | | Raise kharif rice nursery after rains. Varieties: RC Maniphou-7, RC Maniphou-10 and RC Maniphou-13. Especially, encircle the rice nursery plot in which seedlings has not attained 7-10 days. Land preparation of main field may be done after rains 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 | Sowing | | - Sowing may be done after rains. |
| Soybean | Sowing | | - Sow seed after rains @ 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. |
| Groundnut | Sowing | | - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL- 24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. |
| Blackgram/ Rice Bean | Sowing | | - Sowing may be done after rains by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest. |
| Seeds storage | Post harvest management | | For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores. |
| Horticulture Crops | | | |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Ginger/ Turmeric | Vegetative | Leaf Spot | To prevent Leaf Spot disease, after rains apply Bordeaux mixture (5:5:50) after 4 - 5 weeks of sowing or Captan @ 1.5 g/l of water. - Avoid water logging. |
| Colocassia | Vegetative | | Weeding and earthing up may be done after the wet spell. Avoid water logging. After rains, 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/ sangam. 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 harvesting | | In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. Harvest mature crops before rains. |





| Animal Science | | | | |
|------------------------------------|---|---|---|--|
| * Provide clean c Name of bird/ | drinking water for bird Stage | s and animals. Drain Disease an | | be constructed well around the birds or animals sheds to avoid water logging. Agro-meteorological advisories |
| animal | _ | Manageme | | |
| 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 Levamizole 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 repellant must be used in the premises of the sheds. Protect from thunder showers. Protect from after winds (loo). |
| Pig | All age groups | De-worming | | De-worm with Albendazole @7.5 mg/kg b.wt. |
| 5 | except the young | Skin disease | | • Sprayer of <i>Anti-Psoroptic</i> may be used. |
| | ones | Management | | Breeding must be advocated continuously. |
| | | • Management | | 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 Care & Management | | • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight. |
| | | | | • Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures |
| Fishery | | | | • |
| | with happa net or raise | | | |
| Type of Farming | Stage | Management | Agro-m | netrological advisories |
| Carp culture | Breeding | pond | | rmones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <i>ml/kg</i> 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. Fe not be given for 3 days. | |
| | Nurseries | ponds | - Stock 20-30 lakhs spawns in one hectare water. Water depth should be more Feeding should be given@5-10% body weight/day. | |
| | Carp diseases | Argulus (fish lice) infection - Treat | | we all the fishes and give a bath treatment for 15 min per day in a solution of 1g (Potassium permanganate) in 10 litres of water for 5-7 days. one hectare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste overnight. |
| | | EUS (Epizostic Ulcerative Syndrome) | | |



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MANIPUR BULLETIN

8th June, 2018

Tamenglong

| Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 7 th June, 2018) | Weather forecast for next five days of Tamenglong (9 th to 13 th June, 2018) |
|---|--|
| Observed 14.6 mm rainfall with mainly cloudy to overcast | Likely to have widespread heavy rains from Saturday to Wednesday |
| sky . Maximum temperature recorded ranged from 28.8 to 33.0 | and mainly cloudy to overcast sky with maximum temp. 26-29 °C |
| °C and minimum of 21.4 to 22.0 °C with mean relative | & minimum temp. 20-21 °C. Relative humidity may reach up to |
| humidity 94.0 % max and 68.0 % min was recorded in the | 100 % (Max) and 89% (Min). The average wind speed may be 2 |
| past four days with average wind speed was 2.3- 2.7 km/ hr. | km/hr. |

| Field Crops | Stars | Doct and discours | A que moto polocical a deizantes |
|-------------------------|--------------------|------------------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories - Maintain water level at 5-8 cm. |
| | Panicle initiation | | |
| | to flowering (Pre- | | - Make proper drainage system to drain out excess water due to heavy rains. |
| | kharif rice) | Sheath blight/ sheath rot | - Apply Propiconazole @ 15ml/ 15 litres water after rains. |
| Rice | | | - Raise kharif rice nursery after rains. Varieties: RC Maniphou-7, RC Maniphou-10 and RC Maniphou-13. |
| litte | Nursery and land | | - Especially, encircle the rice nursery plot in which seedlings has not attained 7- |
| | preparation of | | 10 days. |
| | main field | | - Land preparation of main field may be done after rains for transplanting rice |
| | (Kharif 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 | Sowing | | - Sowing may be done after rains. |
| Soybean | Sowing | | - Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the |
| Soybean | Sowing | | 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. |
| Groundnut | Sowing | | - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL- |
| Oroununut | bowing | | 24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with |
| | | | Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. |
| Blackgram/ Rice | Sowing | | - Sowing may be done after rains by broadcasting or dibbling. Plot must be kept |
| Bean | Sound | | weed free to avoid insect/ pest. |
| Dean | | | For seed purpose store the seeds in RC-Seed Bin after proper drying and |
| | Post harvest | | cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for |
| Seeds storage | | | moisture content or weight of charcoal and dry if required. |
| Seeus storage | management | | For grains, store grains in well ventilated godowns after drying properly. Spray |
| | | | Malathion 1% on the walls of stores. |
| Horticulture Crops | | | Walathon 170 on the wans of stores. |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Cucurbits | Flowering, | | - Proper staking system must be made to avoid fruits from touching soil. |
| | Fruiting and | | - Harvest mature crops before rains. |
| | Harvesting | | • |
| Ginger/ Turmeric | Vegetative | Leaf Spot | To prevent Leaf Spot disease, after rains apply Bordeaux mixture (5:5:50) after 4 |
| 0 | | | - 5 weeks of sowing or Captan @ 1.5 g/l of water. |
| | | | - Avoid water logging. |
| Colocassia | Vegetative | | - Weeding and earthing up may be done after the wet spell. |
| | | | - Avoid water logging. |
| | | | - After rains, 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg |
| | | | SSP/ sangam. 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 | | - In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% |
| - | fruiting to | | WP) @ 2 g/ litre of water to control the fungal attack after rains. |
| | harvesting | | - Harvest mature crops before rains. |
| | Fruiting to | | - Harvest mature crops before rains. |

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"Gramin Krishi Mausam Seva"



- Avoid water logging.









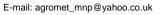
| Animal Science | | | | |
|---------------------------------------|---|---------------------------------|--|--|
| | | | | e constructed well around the birds or animals sheds to avoid water logging. |
| Name of bird/ animal | Stage | Disease ar Manageme | ent | Agro-meteorological advisories |
| Poultry (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 Levamizole 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 repellant must be used in the premises of the sheds.Protect from thunder showers. Protect from after winds (loo). |
| Pig | All age groups | • De-worming | | • De-worm with Albendazole @7.5 mg/kg b.wt. |
| 0 | except the young | • Skin disease | | • Sprayer of <i>Anti-Psoroptic</i> may be used. |
| | ones | Management | | Breeding must be advocated continuously. |
| | | • Management | | Protect from thunder showers especially during night. |
| Cattle | All age groups excepts the young ones | | | 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. |
| | | | | • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight. |
| | Care & Managemen | | ement | 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 | • | | | |
| · · · · · · · · · · · · · · · · · · · | with happa net or raise | the pond dyke heig | ht to avoid | escape of fishes. |
| Type of Farming | Stage | Management | Agro-m | etrological advisories |
| Carp culture | Breeding | pond | 0.5 - 0.7 | mones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <i>ml/kg</i> of fish. |
| | Hatcheries | water | Hatching can be done in traditional happas having outer & inner happas or circul hatcheries. A mild current with fine shower is needed for circular hatcheries. Fee not be given for 3 days. | |
| | Nurseries | ponds | - Stock 2 | 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. should be given@5-10% body weight/day. |
| | Carp diseases Argulus (fish - Rem lice) infection KMn(- Trea soake EUS (Epizostic - Spra | | KMnO ₄ - Treat o | re all the fishes and give a bath treatment for 15 min per day in a solution of 1g (Potassium permanganate) in 10 litres of water for 5-7 days. ne hectare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste overnight. |
| | | | | CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS infected |

SMS:

Lakliba Yumjakeisa faoba akanba nong churaba yai. Loufamda ishing thumjindanaba louri loukhong semjinbiyu. Louhon nouna hunkhiba loufamgi akoibada happa net khabiduna mara chetriba phoudi ishing na chenthakhidanaba semjinbiyu. Nga-yok pukhridagi nga chenthokhidanaba happa net khajinbiyu.



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





MANIPUR BULLETIN

8th June, 2018

<u>Thoubal</u>

| Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 7 th June, 2018) | Weather forecast for next five days of Thoubal (9 th to 13 th June, 2018) |
|---|--|
| Observed 14.6 mm rainfall with mainly cloudy to overcast | |
| sky. Maximum temperature recorded ranged from 28.8 to 33.0 | Likely to have widespread heavy rains from Saturday to Wednesday |
| ^o C and minimum of 21.4 to 22.0 ^o C with mean relative | and mainly cloudy to overcast sky with maximum temp. 28-31 °C |
| humidity 94.0 % max and 68.0 % min was recorded in the | & minimum temp. 21-23 °C. Relative humidity may reach up to |
| past four days with average wind speed was 2.3- 2.7 km/ hr. | 100 % (Max) and 90% (Min). The average wind speed may be 2-4 |
| | km/hr. |

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|-------------------------|--|------------------------------|--|
| | Panicle initiation to flowering (Pre- kharif rice) | Sheath blight/ sheath rot | Maintain water level at 5-8 cm. Make proper drainage system to drain out excess water due to heavy rains. Apply Propiconazole @ 15ml/ 15 litres water after rains. |
| Rice | Nursery and land preparation of main field (Kharif rice) | | Raise kharif rice nursery after rains. Varieties: RC Maniphou-7, RC Maniphou-10 and RC Maniphou-13. Land preparation of main field may be done after rains 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 | Sowing | | - Sowing may be done after rains. |
| Soybean | Sowing | | - Sow seed after rains @ 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. |
| Groundnut | Sowing | | - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL- 24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. |
| Blackgram/ Rice Bean | Sowing | | - Sowing may be done after rains by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest. |
| Seeds storage | Post harvest management | | For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores. |
| Horticulture Crops | | · | |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Cucurbits | Flowering, Fruiting and Harvesting | | Proper staking system must be made to avoid fruits from touching soil.Harvest mature crops before rains. |
| Ginger/ Turmeric | Vegetative | Leaf Spot | To prevent Leaf Spot disease, after rains apply Bordeaux mixture (5:5:50) after 4 - 5 weeks of sowing or Captan @ 1.5 g/l of water. - Avoid water logging. |
| Colocassia | Vegetative | | Weeding and earthing up may be done after the wet spell. Avoid water logging. After rains, 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/ sangam. 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 harvesting | | In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. Harvest mature crops before rains. |
| Tomato | Fruiting to harvesting | | Harvest mature crops before rains.Avoid water logging. |





| Animal Science | | | | |
|---------------------------------------|--|---------------------------------|--|--|
| | | | | e constructed well around the birds or animals sheds to avoid water logging. |
| Name of bird/ animal | Stage | Disease ar Manageme | ent | 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 Levamizole 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 repellant must be used in the premises of the sheds.Protect from thunder showers. Protect from after winds (loo). |
| Pig | All age groups | • De-worming | | • De-worm with Albendazole @7.5 mg/kg b.wt. |
| 0 | except the young | • Skin disease | | • Sprayer of <i>Anti-Psoroptic</i> may be used. |
| | ones | Management | | Breeding must be advocated continuously. |
| | | • Management | | Protect from thunder showers especially during night. |
| Cattle | All age groups excepts the young ones | | | 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. |
| | | | | • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight. |
| | Care & Managemen | | ement | 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 | • | | | |
| · · · · · · · · · · · · · · · · · · · | with happa net or raise | the pond dyke heig | ht to avoid | escape of fishes. |
| Type of Farming | Stage | Management | Agro-m | etrological advisories |
| Carp culture | Breeding | pond | 0.5 - 0.7 | mones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <i>ml/kg</i> of fish. |
| | Hatcheries | water | Hatching can be done in traditional happas having outer & inner happas or circul hatcheries. A mild current with fine shower is needed for circular hatcheries. Fee not be given for 3 days. | |
| | Nurseries | ponds | - Stock 2 | 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. should be given@5-10% body weight/day. |
| | Carp diseases Argulus (fish - Rem lice) infection KMnG - Trea soaked EUS (Epizostic - Spra | | KMnO ₄ - Treat o | re all the fishes and give a bath treatment for 15 min per day in a solution of 1g (Potassium permanganate) in 10 litres of water for 5-7 days. ne hectare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste overnight. |
| | | | | CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS infected |

SMS:

Lakliba Yumjakeisa faoba akanba nong churaba yai. Loufamda ishing thumjindanaba louri loukhong semjinbiyu. Louhon nouna hunkhiba loufamgi akoibada happa net khabiduna mara chetriba phoudi ishing na chenthakhidanaba semjinbiyu. Nga-yok pukhridagi nga chenthokhidanaba happa net khajinbiyu.



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MANIPUR BULLETIN

8th June, 2018

<u>Ukhrul</u>

| Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 7 th June, 2018) | Weather forecast for next five days of Ukhrul (9 th to 13 th June, 2018) |
|---|---|
| Observed 14.6 mm rainfall with mainly cloudy to overcast | |
| sky. Maximum temperature recorded ranged from 28.8 to 33.0 | Likely to have widespread heavy rains from Saturday to Wednesday |
| ^o C and minimum of 21.4 to 22.0 ^o C with mean relative | and mainly cloudy to overcast sky with maximum temp. 26-29 °C |
| humidity 94.0 % max and 68.0 % min was recorded in the | & minimum temp. 20-21 °C. Relative humidity may reach up to |
| past four days with average wind speed was 2.3- 2.7 km/ hr. | 100 % (Max) and 96% (Min). The average wind speed may be 2-3 |
| | km/hr. |

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|-------------------------|--|------------------------------|--|
| • | Panicle initiation | | - Maintain water level at 5-8 cm. |
| | | | - Make proper drainage system to drain out excess water due to heavy rains. |
| Rice | to flowering (Pre- kharif rice) | Sheath blight/ sheath rot | - Apply Propiconazole @ 15ml/ 15 litres water after rains. |
| | Nursery and land preparation of main field (Kharif rice) | | Raise kharif rice nursery after rains. Varieties: RC Maniphou-7, RC Maniphou-10 and RC Maniphou-13. Especially, encircle the rice nursery plot in which seedlings has not attained 7-10 days. Land preparation of main field may be done after rains 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 | Sowing | | - Sowing may be done after rains. |
| Soybean | Sowing | | - Sow seed after rains @ 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. |
| Groundnut | Sowing | | - Seed rate is $100 - 110$ kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds after rains at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. |
| Blackgram/ Rice Bean | Sowing | | - Sowing may be done after rains by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest. |
| Seeds storage | Post harvest management | | For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores. |
| Horticulture Crops | | | • |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Ginger/ Turmeric | Vegetative | Leaf Spot | To prevent Leaf Spot disease, after rains apply Bordeaux mixture (5:5:50) after 4 - 5 weeks of sowing or Captan @ 1.5 g/l of water. - Avoid water logging. |
| Colocassia | Vegetative | | Weeding and earthing up may be done after the wet spell. Avoid water logging. After rains, 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/ sangam. 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 harvesting | | In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. Harvest mature crops before rains. |





| Animal Science | | | | |
|------------------------------------|---|----------------------------------|---|--|
| * Provide clean c Name of bird/ | drinking water for bird Stage | | | be constructed well around the birds or animals sheds to avoid water logging. Agro-meteorological advisories |
| animal | _ | Disease and Management | | |
| 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 Management | | • De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry. |
| | | | | • 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 repellant must be used in the premises of the sheds. Protect from thunder showers. Protect from after winds (loo). |
| Pig | All age groups | De-worming | | De-worm with Albendazole @7.5 mg/kg b.wt. |
| | except the young | • Skin disease | | • Sprayer of <i>Anti-Psoroptic</i> may be used. |
| | ones | Management | | Breeding must be advocated continuously. |
| | • Management | | | Protect from thunder showers especially during night. |
| Cattle | All age groups excepts the young ones | pts the young | | 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. |
| | | | | • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight. |
| | | | | • Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures |
| Fishery | | | | • |
| | with happa net or raise | | | |
| Type of Farming | Stage | Management | Agro-m | netrological 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 shoul 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 n Feeding should be given@5-10% body weight/day. | |
| | Carp diseases | Argulus (fish lice) infection | (fish ection Remove all the fishes and give a bath treatment for 15 min per day in a solution of 1g KMnO₄ (Potassium permanganate) in 10 litres of water for 5-7 days. Treat one hectare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste soaked overnight. | |
| | | | | CIFAX @ 1 litre/ 100 litre of water for one hectare fish pond with EUS infected |