

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 14th May, 2019**District: Tamenglong****Past weather for the of Imphal West (10th to 13th May, 19):**

No rainfall was observed during the past four days. The skies remained clear to partly cloudy. Maximum temperature ranged from 30.9 – 32.1 °C and minimum of 19.2 – 22.7 °C. Mean relative humidity of 78.5 % max & 48.3 % min was recorded in the past four days & average wind speed was 5.5 – 8.8 km/ hr.

Weather forecast for Tamenglong (15th to 19th May, 2019):

Likely to have light to moderate rains during next five days. The sky will remain mainly clear with max. temp. 28 °C & mini. temp. 20 - 21 °C. Relative humidity may reach upto 99 % (max) & 63 % (min). The average wind speed may be 4-5 km/hr.

Field Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|--------------------------------------|--------------------------------------|---------------------------|--|
| Kharif Rice | Nursery to main field preparation | | <ul style="list-style-type: none"> - Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. |
| Pre-kharif Rice | Panicle initiation to Flowering | Leaf folder and case worm | Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. |
| Kharif maize | Land preparation | | - Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. |
| Summer Maize | Cob maturity to harvesting | | - To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water. |
| Soybean/ Groundnut/ Blackgram | Land preparation and Seed collection | | It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha. |
| Seed 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. |

Horticulture Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|----------------------------|-------------------------|------------------|--|
| Cauliflower | Nursery | | - Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers. |
| Tree bean | Planting | | Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting. |
| French Bean/ Bhindi | Vegetative to flowering | | - Weeding may be done to avoid insect pest infestation. |
| Turmeric | Vegetative | | - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months. |
| Cucurbits | Flowering to fruiting | | <ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew. |



| Animal Sciences | | | |
|---|----------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All susceptible age groups | | Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials. |
| Pig | Above 3 months of age | Swine Fever | - Vaccinate against swine fever after the age of 3 months. |
| | | Coccidial infection | Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days. |
| Cattle | Above 3 months of age | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | Deworming | Give Albendazole @30 ml per 100kg body weight. |
| | | Milk fever | Give mineral mixture@ 60g/day in divided dose to the pregnant ones. |
| | | Fodder cultivation | Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days. |
| Sheep/Goat | All animals | Deworming | Give Albendazole @ 25ml/100kg body weight. |
| | | Management | - Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc. |
| Fishery | | | |
| Type of Farming | Stage | Field | Agro-metrological advisories |
| Carp culture (Common carp & grass carp) | Breeding | pond | <ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp. |
| | Nurseries | Pond and fish | Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day. |
| * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture. | | | |

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 14th May, 2019**District: Thoubal****Past weather for the of Imphal West (10th to 13th May, 19):**

No rainfall was observed during the past four days. The skies remained clear to partly cloudy. Maximum temperature ranged from 30.9 – 32.1 °C and minimum of 19.2 – 22.7 °C. Mean relative humidity of 78.5 % max & 48.3 % min was recorded in the past four days & average wind speed was 5.5 – 8.8 km/ hr.

Weather forecast for Thoubal (15th to 19th May, 2019):

Likely to have light to moderate rains during next five days. The sky will remain mainly clear with max. temp. 31 °C & mini. temp. 20 - 21 °C. Relative humidity may reach upto 96 % (max) & 38 % (min). The average wind speed may be 9-11 km/hr.

Field Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|--------------------------------------|--------------------------------------|---------------------------|--|
| Kharif Rice | Nursery to main field preparation | | <ul style="list-style-type: none"> - Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. |
| Pre-kharif Rice | Panicle initiation to Flowering | Leaf folder and case worm | Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. |
| Kharif maize | Land preparation | | <ul style="list-style-type: none"> - Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. |
| Summer Maize | Cob maturity to harvesting | | <ul style="list-style-type: none"> - To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water. |
| Soybean/ Groundnut/ Blackgram | Land preparation and Seed collection | | It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha. |
| Seed storage | Post-harvest Management | | <ul style="list-style-type: none"> - 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. |

Horticulture Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|----------------------------|-------------------------|------------------|--|
| Cauliflower | Nursery | | <ul style="list-style-type: none"> - Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers. |
| Tree bean | Planting | | Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting. |
| French Bean/ Bhindi | Vegetative to flowering | | <ul style="list-style-type: none"> - Weeding may be done to avoid insect pest infestation. |
| Turmeric | Vegetative | | <ul style="list-style-type: none"> - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months. |
| Cucurbits | Flowering to fruiting | | <ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew. |



| Animal Sciences | | | |
|---|----------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All susceptible age groups | | Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials. |
| Pig | Above 3 months of age | Swine Fever | - Vaccinate against swine fever after the age of 3 months. |
| | | Coccidial infection | Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days. |
| Cattle | Above 3 months of age | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | Deworming | Give Albendazole @30 ml per 100kg body weight. |
| | | Milk fever | Give mineral mixture@ 60g/day in divided dose to the pregnant ones. |
| | | Fodder cultivation | Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days. |
| Sheep/Goat | All animals | Deworming | Give Albendazole @ 25ml/100kg body weight. |
| | | Management | - Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc. |
| Fishery | | | |
| Type of Farming | Stage | Field | Agro-metrological advisories |
| Carp culture (Common carp & grass carp) | Breeding | pond | <ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp. |
| | Nurseries | Pond and fish | Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day. |
| * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture. | | | |

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 14th May, 2019

District: Ukhrul

Past weather for the of Imphal West (10th to 13th May, 19):

No rainfall was observed during the past four days. The skies remained clear to partly cloudy. Maximum temperature ranged from 30.9 – 32.1 °C and minimum of 19.2 – 22.7 °C. Mean relative humidity of 78.5 % max & 48.3 % min was recorded in the past four days & average wind speed was 5.5 – 8.8 km/ hr.

Weather forecast for Ukhrul (15th to 19th May, 2019):

Likely to have light to moderate rains during next five days. The sky will remain mainly clear with max. temp. 28 - 29 °C & mini. temp. 20 - 21 °C. Relative humidity may reach upto 85 % (max) & 35 % (min). The average wind speed may be 6-7 km/hr.

Field Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|--------------------------------------|--------------------------------------|---------------------------|--|
| Kharif Rice | Nursery to main field preparation | | <ul style="list-style-type: none"> - Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. |
| Pre-kharif Rice | Panicle initiation to Flowering | Leaf folder and case worm | Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. |
| Kharif maize | Land preparation | | - Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. |
| Summer Maize | Cob maturity to harvesting | | - To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water. |
| Soybean/ Groundnut/ Blackgram | Land preparation and Seed collection | | It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha. |
| Seed 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. |

Horticulture Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|----------------------------|-------------------------|------------------|--|
| Cauliflower | Nursery | | - Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers. |
| Tree bean | Planting | | Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting. |
| French Bean/ Bhindi | Vegetative to flowering | | - Weeding may be done to avoid insect pest infestation. |
| Turmeric | Vegetative | | - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months. |
| Cucurbits | Flowering to fruiting | | <ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew. |



| Animal Sciences | | | |
|---|----------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All susceptible age groups | | Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials. |
| Pig | Above 3 months of age | Swine Fever | - Vaccinate against swine fever after the age of 3 months. |
| | | Coccidial infection | Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days. |
| Cattle | Above 3 months of age | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | Deworming | Give Albendazole @30 ml per 100kg body weight. |
| | | Milk fever | Give mineral mixture@ 60g/day in divided dose to the pregnant ones. |
| | | Fodder cultivation | Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days. |
| Sheep/Goat | All animals | Deworming | Give Albendazole @ 25ml/100kg body weight. |
| | | Management | - Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc. |
| Fishery | | | |
| Type of Farming | Stage | Field | Agro-metrological advisories |
| Carp culture (Common carp & grass carp) | Breeding | pond | <ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp. |
| | Nurseries | Pond and fish | Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day. |
| * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture. | | | |

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN****District: Imphal West****Date of issue: 14th May, 2019****Block: Patsoi****Past weather for the of Imphal West (10th to 13th May, 19):**

No rainfall was observed during the past four days. The skies remained clear to partly cloudy. Maximum temperature ranged from 30.9 – 32.1 °C and minimum of 19.2 – 22.7 °C. Mean relative humidity of 78.5 % max & 48.3 % min was recorded in the past four days & average wind speed was 5.5 – 8.8 km/ hr.

Weather forecast for Patsoi (15th to 19th May, 2019):

Likely to have light to moderate rains during next five days. The sky will remain mainly clear with average max. temp. 32.4 °C & mini. temp. 21.6 °C. The average relative humidity of 95.6% (max) and 43.6 % (min). The average wind speed may be 7.4 km/hr.

Field Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|--------------------------------------|--------------------------------------|---------------------------|--|
| Kharif Rice | Nursery to main field preparation | | <ul style="list-style-type: none"> - Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. |
| Pre-kharif Rice | Panicle initiation to Flowering | Leaf folder and case worm | Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. |
| Kharif maize | Land preparation | | - Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. |
| Summer Maize | Cob maturity to harvesting | | - To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water. |
| Soybean/ Groundnut/ Blackgram | Land preparation and Seed collection | | It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha. |
| Seed 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. |

Horticulture Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|----------------------------|-------------------------|------------------|--|
| Cauliflower | Nursery | | - Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers. |
| Tree bean | Planting | | Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting. |
| French Bean/ Bhindi | Vegetative to flowering | | - Weeding may be done to avoid insect pest infestation. |
| Turmeric | Vegetative | | - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months. |
| Cucurbits | Flowering to fruiting | | <ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew. |



| Animal Sciences | | | |
|---|----------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All susceptible age groups | | Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials. |
| Pig | Above 3 months of age | Swine Fever | - Vaccinate against swine fever after the age of 3 months. |
| | | Coccidial infection | Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days. |
| Cattle | Above 3 months of age | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | Deworming | Give Albendazole @30 ml per 100kg body weight. |
| | | Milk fever | Give mineral mixture@ 60g/day in divided dose to the pregnant ones. |
| | | Fodder cultivation | Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days. |
| Sheep/Goat | All animals | Deworming | Give Albendazole @ 25ml/100kg body weight. |
| | | Management | - Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc. |
| Fishery | | | |
| Type of Farming | Stage | Field | Agro-metrological advisories |
| Carp culture (Common carp & grass carp) | Breeding | pond | <ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp. |
| | Nurseries | Pond and fish | Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day. |
| * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture. | | | |

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN****District: Imphal West****Date of issue: 14th May, 2019****Block: Wangoi****Past weather for the of Imphal West (10th to 13th May, 19):**

No rainfall was observed during the past four days. The skies remained clear to partly cloudy. Maximum temperature ranged from 30.9 – 32.1 °C and minimum of 19.2 – 22.7 °C. Mean relative humidity of 78.5 % max & 48.3 % min was recorded in the past four days & average wind speed was 5.5 – 8.8 km/ hr.

Weather forecast for Wangoi (15th to 19th May, 2019):

Likely to have light to moderate rains during next five days. The sky will remain mainly clear with average max. temp. 32.3 °C & mini. temp. 21.6 °C. The average relative humidity of 95.4% (max) and 42.6 % (min). The average wind speed may be 7.6 km/hr.

Field Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|--------------------------------------|--------------------------------------|---------------------------|--|
| Kharif Rice | Nursery to main field preparation | | <ul style="list-style-type: none"> - Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. |
| Pre-kharif Rice | Panicle initiation to Flowering | Leaf folder and case worm | Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. |
| Kharif maize | Land preparation | | - Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. |
| Summer Maize | Cob maturity to harvesting | | - To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water. |
| Soybean/ Groundnut/ Blackgram | Land preparation and Seed collection | | It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha. |
| Seed 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. |

Horticulture Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|----------------------------|-------------------------|------------------|--|
| Cauliflower | Nursery | | - Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers. |
| Tree bean | Planting | | Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting. |
| French Bean/ Bhindi | Vegetative to flowering | | - Weeding may be done to avoid insect pest infestation. |
| Turmeric | Vegetative | | - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months. |
| Cucurbits | Flowering to fruiting | | <ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew. |



| Animal Sciences | | | |
|---|----------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All susceptible age groups | | Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials. |
| Pig | Above 3 months of age | Swine Fever | - Vaccinate against swine fever after the age of 3 months. |
| | | Coccidial infection | Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days. |
| Cattle | Above 3 months of age | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | Deworming | Give Albendazole @30 ml per 100kg body weight. |
| | | Milk fever | Give mineral mixture@ 60g/day in divided dose to the pregnant ones. |
| | | Fodder cultivation | Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days. |
| Sheep/Goat | All animals | Deworming | Give Albendazole @ 25ml/100kg body weight. |
| | | Management | - Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc. |
| Fishery | | | |
| Type of Farming | Stage | Field | Agro-metrological advisories |
| Carp culture (Common carp & grass carp) | Breeding | pond | <ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp. |
| | Nurseries | Pond and fish | Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day. |
| * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture. | | | |

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN****District: Imphal West****Date of issue: 14th May, 2019****Block: Haorangsabal****Past weather for the of Imphal West (10th to 13th May, 19):**

No rainfall was observed during the past four days. The skies remained clear to partly cloudy. Maximum temperature ranged from 30.9 – 32.1 °C and minimum of 19.2 – 22.7 °C. Mean relative humidity of 78.5 % max & 48.3 % min was recorded in the past four days & average wind speed was 5.5 – 8.8 km/ hr.

Weather forecast for Haorangsabal (15th to 19th May, 2019):

Likely to have light to moderate rains during next five days. The sky will remain mainly clear with average max. temp. 32.5 °C & mini. temp. 21.6 °C. The average relative humidity of 95.4% (max) and 44.2 % (min). The average wind speed may be 7.2 km/hr.

Field Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|--------------------------------------|--------------------------------------|---------------------------|--|
| Kharif Rice | Nursery to main field preparation | | <ul style="list-style-type: none"> - Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. |
| Pre-kharif Rice | Panicle initiation to Flowering | Leaf folder and case worm | Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. |
| Kharif maize | Land preparation | | - Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. |
| Summer Maize | Cob maturity to harvesting | | - To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water. |
| Soybean/ Groundnut/ Blackgram | Land preparation and Seed collection | | It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha. |
| Seed 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. |

Horticulture Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|----------------------------|-------------------------|------------------|--|
| Cauliflower | Nursery | | - Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers. |
| Tree bean | Planting | | Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting. |
| French Bean/ Bhindi | Vegetative to flowering | | - Weeding may be done to avoid insect pest infestation. |
| Turmeric | Vegetative | | - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months. |
| Cucurbits | Flowering to fruiting | | <ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew. |



| Animal Sciences | | | |
|---|----------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All susceptible age groups | | Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials. |
| Pig | Above 3 months of age | Swine Fever | - Vaccinate against swine fever after the age of 3 months. |
| | | Coccidial infection | Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days. |
| Cattle | Above 3 months of age | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | Deworming | Give Albendazole @30 ml per 100kg body weight. |
| | | Milk fever | Give mineral mixture@ 60g/day in divided dose to the pregnant ones. |
| | | Fodder cultivation | Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days. |
| Sheep/Goat | All animals | Deworming | Give Albendazole @ 25ml/100kg body weight. |
| | | Management | - Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc. |
| Fishery | | | |
| Type of Farming | Stage | Field | Agro-metrological advisories |
| Carp culture (Common carp & grass carp) | Breeding | pond | <ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp. |
| | Nurseries | Pond and fish | Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day. |
| * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture. | | | |

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN****District: Imphal West****Date of issue: 14th May, 2019****Block: Hiyangthang****Past weather for the of Imphal West (10th to 13th May, 19):**

No rainfall was observed during the past four days. The skies remained clear to partly cloudy. Maximum temperature ranged from 30.9 – 32.1 °C and minimum of 19.2 – 22.7 °C. Mean relative humidity of 78.5 % max & 48.3 % min was recorded in the past four days & average wind speed was 5.5 – 8.8 km/ hr.

Weather forecast for Hiyangthang (15th to 19th May, 2019):

Likely to have light to moderate rains during next five days. The sky will remain mainly clear with average max. temp. 32.4 °C & mini. temp. 21.6 °C. The average relative humidity of 95.8% (max) and 43.4 % (min). The average wind speed may be 7.2 km/hr.

Field Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|--------------------------------------|--------------------------------------|---------------------------|--|
| Kharif Rice | Nursery to main field preparation | | <ul style="list-style-type: none"> - Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. |
| Pre-kharif Rice | Panicle initiation to Flowering | Leaf folder and case worm | Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. |
| Kharif maize | Land preparation | | - Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. |
| Summer Maize | Cob maturity to harvesting | | - To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water. |
| Soybean/ Groundnut/ Blackgram | Land preparation and Seed collection | | It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha. |
| Seed 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. |

Horticulture Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|----------------------------|-------------------------|------------------|--|
| Cauliflower | Nursery | | - Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers. |
| Tree bean | Planting | | Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting. |
| French Bean/ Bhindi | Vegetative to flowering | | - Weeding may be done to avoid insect pest infestation. |
| Turmeric | Vegetative | | - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months. |
| Cucurbits | Flowering to fruiting | | <ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew. |



| Animal Sciences | | | |
|---|----------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All susceptible age groups | | Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials. |
| Pig | Above 3 months of age | Swine Fever | - Vaccinate against swine fever after the age of 3 months. |
| | | Coccidial infection | Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days. |
| Cattle | Above 3 months of age | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | Deworming | Give Albendazole @30 ml per 100kg body weight. |
| | | Milk fever | Give mineral mixture@ 60g/day in divided dose to the pregnant ones. |
| | | Fodder cultivation | Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days. |
| Sheep/Goat | All animals | Deworming | Give Albendazole @ 25ml/100kg body weight. |
| | | Management | - Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc. |
| Fishery | | | |
| Type of Farming | Stage | Field | Agro-metrological advisories |
| Carp culture (Common carp & grass carp) | Breeding | pond | <ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp. |
| | Nurseries | Pond and fish | Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day. |
| * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture. | | | |

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 14th May, 2019**District: Bishnupur****Past weather for the of Imphal West (10th to 13th May, 19):**

No rainfall was observed during the past four days. The skies remained clear to partly cloudy. Maximum temperature ranged from 30.9 – 32.1 °C and minimum of 19.2 – 22.7 °C. Mean relative humidity of 78.5 % max & 48.3 % min was recorded in the past four days & average wind speed was 5.5 – 8.8 km/ hr.

Weather forecast for Bishnupur (15th to 19th May, 2019):

Likely to have light to moderate rains during next five days. The sky will remain mainly clear with max. temp. 31 °C & mini. temp. 20 - 21 °C. Relative humidity may reach upto 99 % (max) & 55 % (min). The average wind speed may be 5-6 km/hr.

Field Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|--------------------------------------|--------------------------------------|---------------------------|--|
| Kharif Rice | Nursery to main field preparation | | <ul style="list-style-type: none"> - Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. |
| Pre-kharif Rice | Panicle initiation to Flowering | Leaf folder and case worm | Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. |
| Kharif maize | Land preparation | | <ul style="list-style-type: none"> - Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. |
| Summer Maize | Cob maturity to harvesting | | <ul style="list-style-type: none"> - To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water. |
| Soybean/ Groundnut/ Blackgram | Land preparation and Seed collection | | It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha. |
| Seed storage | Post-harvest Management | | <ul style="list-style-type: none"> - 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. |

Horticulture Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|----------------------------|-------------------------|------------------|--|
| Cauliflower | Nursery | | <ul style="list-style-type: none"> - Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers. |
| Tree bean | Planting | | Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting. |
| French Bean/ Bhindi | Vegetative to flowering | | <ul style="list-style-type: none"> - Weeding may be done to avoid insect pest infestation. |
| Turmeric | Vegetative | | <ul style="list-style-type: none"> - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months. |
| Cucurbits | Flowering to fruiting | | <ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew. |



| Animal Sciences | | | |
|---|----------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All susceptible age groups | | Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials. |
| Pig | Above 3 months of age | Swine Fever | - Vaccinate against swine fever after the age of 3 months. |
| | | Coccidial infection | Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days. |
| Cattle | Above 3 months of age | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | Deworming | Give Albendazole @30 ml per 100kg body weight. |
| | | Milk fever | Give mineral mixture@ 60g/day in divided dose to the pregnant ones. |
| | | Fodder cultivation | Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days. |
| Sheep/Goat | All animals | Deworming | Give Albendazole @ 25ml/100kg body weight. |
| | | Management | - Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc. |
| Fishery | | | |
| Type of Farming | Stage | Field | Agro-metrological advisories |
| Carp culture (Common carp & grass carp) | Breeding | pond | <ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp. |
| | Nurseries | Pond and fish | Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day. |
| * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture. | | | |

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 14th May, 2019**District: Chandel****Past weather for the of Imphal West (10th to 13th May, 19):**

No rainfall was observed during the past four days. The skies remained clear to partly cloudy. Maximum temperature ranged from 30.9 – 32.1 °C and minimum of 19.2 – 22.7 °C. Mean relative humidity of 78.5 % max & 48.3 % min was recorded in the past four days & average wind speed was 5.5 – 8.8 km/ hr.

Weather forecast for Chandel (15th to 19th May, 2019):

Likely to have light to moderate rains during next five days. The sky will remain mainly clear with max. temp. 31 °C & mini. temp. 20 - 21 °C. Relative humidity may reach upto 90 % (max) & 34 % (min). The average wind speed may be 7-8 km/hr.

Field Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|--------------------------------------|--------------------------------------|---------------------------|--|
| Kharif Rice | Nursery to main field preparation | | <ul style="list-style-type: none"> - Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. |
| Pre-kharif Rice | Panicle initiation to Flowering | Leaf folder and case worm | Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. |
| Kharif maize | Land preparation | | - Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. |
| Summer Maize | Cob maturity to harvesting | | - To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water. |
| Soybean/ Groundnut/ Blackgram | Land preparation and Seed collection | | It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha. |
| Seed 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. |

Horticulture Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|----------------------------|-------------------------|------------------|--|
| Cauliflower | Nursery | | - Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers. |
| Tree bean | Planting | | Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting. |
| French Bean/ Bhindi | Vegetative to flowering | | - Weeding may be done to avoid insect pest infestation. |
| Turmeric | Vegetative | | - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months. |
| Cucurbits | Flowering to fruiting | | <ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew. |



| Animal Sciences | | | |
|---|----------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All susceptible age groups | | Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials. |
| Pig | Above 3 months of age | Swine Fever | - Vaccinate against swine fever after the age of 3 months. |
| | | Coccidial infection | Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days. |
| Cattle | Above 3 months of age | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | Deworming | Give Albendazole @30 ml per 100kg body weight. |
| | | Milk fever | Give mineral mixture@ 60g/day in divided dose to the pregnant ones. |
| | | Fodder cultivation | Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days. |
| Sheep/Goat | All animals | Deworming | Give Albendazole @ 25ml/100kg body weight. |
| | | Management | - Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc. |
| Fishery | | | |
| Type of Farming | Stage | Field | Agro-metrological advisories |
| Carp culture (Common carp & grass carp) | Breeding | pond | <ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp. |
| | Nurseries | Pond and fish | Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day. |
| * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture. | | | |

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 14th May, 2019*District: Churachandpur***Past weather for the of Imphal West (10th to 13th May, 19):**

No rainfall was observed during the past four days. The skies remained clear to partly cloudy. Maximum temperature ranged from 30.9 – 32.1 °C and minimum of 19.2 – 22.7 °C. Mean relative humidity of 78.5 % max & 48.3 % min was recorded in the past four days & average wind speed was 5.5 – 8.8 km/ hr.

Weather forecast for Churachandpur (15th to 19th May, 2019):

Likely to have light to moderate rains during next five days. The sky will remain mainly clear with max. temp. 31 °C & mini. temp. 20 - 21 °C. Relative humidity may reach upto 99 % (max) & 47 % (min). The average wind speed may be 5-6 km/hr.

Field Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|--------------------------------------|--------------------------------------|---------------------------|--|
| Kharif Rice | Nursery to main field preparation | | <ul style="list-style-type: none"> - Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. |
| Pre-kharif Rice | Panicle initiation to Flowering | Leaf folder and case worm | Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. |
| Kharif maize | Land preparation | | - Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. |
| Summer Maize | Cob maturity to harvesting | | - To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water. |
| Soybean/ Groundnut/ Blackgram | Land preparation and Seed collection | | It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha. |
| Seed 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. |

Horticulture Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|----------------------------|-------------------------|------------------|--|
| Cauliflower | Nursery | | - Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers. |
| Tree bean | Planting | | Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting. |
| French Bean/ Bhindi | Vegetative to flowering | | - Weeding may be done to avoid insect pest infestation. |
| Turmeric | Vegetative | | - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months. |
| Cucurbits | Flowering to fruiting | | <ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew. |



| Animal Sciences | | | |
|---|----------------------------|---------------------|---|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All susceptible age groups | | Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials. |
| Pig | Above 3 months of age | Swine Fever | - Vaccinate against swine fever after the age of 3 months. |
| | | Coccidial infection | Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days. |
| Cattle | Above 3 months of age | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | Deworming | Give Albendazole @30 ml per 100kg body weight. |
| | | Milk fever | Give mineral mixture@ 60g/day in divided dose to the pregnant ones. |
| | | Fodder cultivation | Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days. |
| Sheep/Goat | All animals | Deworming | Give Albendazole @ 25ml/100kg body weight. |
| | | Management | - Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc. |
| Fishery | | | |
| Type of Farming | Stage | Field | Agro-metrological advisories |
| Carp culture (Common carp & grass carp) | Breeding | pond | ▪ Pond should be free from insects, predators, aquatic weeds etc. ▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. ▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp. |
| | Nurseries | Pond and fish | Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day. |
| * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture. | | | |

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 14th May, 2019*District: Imphal East***Past weather for the of Imphal West (10th to 13th May, 19):**

No rainfall was observed during the past four days. The skies remained clear to partly cloudy. Maximum temperature ranged from 30.9 – 32.1 °C and minimum of 19.2 – 22.7 °C. Mean relative humidity of 78.5 % max & 48.3 % min was recorded in the past four days & average wind speed was 5.5 – 8.8 km/ hr.

Weather forecast for Imphal East (15th to 19th May, 2019):

Likely to have light to moderate rains during next five days. The sky will remain mainly clear with max. temp. 31 °C & mini. temp. 20 - 21 °C. Relative humidity may reach upto 94 % (max) & 47 % (min). The average wind speed may be 7-8 km/hr.

Field Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|--------------------------------------|--------------------------------------|---------------------------|--|
| Kharif Rice | Nursery to main field preparation | | <ul style="list-style-type: none"> - Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. |
| Pre-kharif Rice | Panicle initiation to Flowering | Leaf folder and case worm | Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. |
| Kharif maize | Land preparation | | <ul style="list-style-type: none"> - Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. |
| Summer Maize | Cob maturity to harvesting | | <ul style="list-style-type: none"> - To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water. |
| Soybean/ Groundnut/ Blackgram | Land preparation and Seed collection | | It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha. |
| Seed storage | Post-harvest Management | | <ul style="list-style-type: none"> - 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. |

Horticulture Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|----------------------------|-------------------------|------------------|--|
| Cauliflower | Nursery | | <ul style="list-style-type: none"> - Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers. |
| Tree bean | Planting | | Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting. |
| French Bean/ Bhindi | Vegetative to flowering | | <ul style="list-style-type: none"> - Weeding may be done to avoid insect pest infestation. |
| Turmeric | Vegetative | | <ul style="list-style-type: none"> - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months. |
| Cucurbits | Flowering to fruiting | | <ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew. |



| Animal Sciences | | | |
|---|----------------------------|---------------------|---|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All susceptible age groups | | Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials. |
| Pig | Above 3 months of age | Swine Fever | - Vaccinate against swine fever after the age of 3 months. |
| | | Coccidial infection | Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days. |
| Cattle | Above 3 months of age | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | Deworming | Give Albendazole @30 ml per 100kg body weight. |
| | | Milk fever | Give mineral mixture@ 60g/day in divided dose to the pregnant ones. |
| | | Fodder cultivation | Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days. |
| Sheep/Goat | All animals | Deworming | Give Albendazole @ 25ml/100kg body weight. |
| | | Management | - Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc. |
| Fishery | | | |
| Type of Farming | Stage | Field | Agro-metrological advisories |
| Carp culture (Common carp & grass carp) | Breeding | pond | ▪ Pond should be free from insects, predators, aquatic weeds etc. ▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. ▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp. |
| | Nurseries | Pond and fish | Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day. |
| * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture. | | | |

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 14th May, 2019**District: Imphal West****Past weather for the of Imphal West (10th to 13th May, 19):**

No rainfall was observed during the past four days. The skies remained clear to partly cloudy. Maximum temperature ranged from 30.9 – 32.1 °C and minimum of 19.2 – 22.7 °C. Mean relative humidity of 78.5 % max & 48.3 % min was recorded in the past four days & average wind speed was 5.5 – 8.8 km/ hr.

Weather forecast for Imphal West (15th to 19th May, 2019):

Likely to have light to moderate rains during next five days. The sky will remain mainly clear with max. temp. 31 °C & mini. temp. 20 - 21 °C. Relative humidity may reach upto 99 % (max) & 54 % (min). The average wind speed may be 4-5 km/hr.

Field Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|--------------------------------------|--------------------------------------|---------------------------|--|
| Kharif Rice | Nursery to main field preparation | | <ul style="list-style-type: none"> - Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. |
| Pre-kharif Rice | Panicle initiation to Flowering | Leaf folder and case worm | Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. |
| Kharif maize | Land preparation | | <ul style="list-style-type: none"> - Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. |
| Summer Maize | Cob maturity to harvesting | | <ul style="list-style-type: none"> - To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water. |
| Soybean/ Groundnut/ Blackgram | Land preparation and Seed collection | | It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha. |
| Seed storage | Post-harvest Management | | <ul style="list-style-type: none"> - 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. |

Horticulture Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|----------------------------|-------------------------|------------------|--|
| Cauliflower | Nursery | | <ul style="list-style-type: none"> - Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers. |
| Tree bean | Planting | | Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting. |
| French Bean/ Bhindi | Vegetative to flowering | | <ul style="list-style-type: none"> - Weeding may be done to avoid insect pest infestation. |
| Turmeric | Vegetative | | <ul style="list-style-type: none"> - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months. |
| Cucurbits | Flowering to fruiting | | <ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew. |



| Animal Sciences | | | |
|---|----------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All susceptible age groups | | Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials. |
| Pig | Above 3 months of age | Swine Fever | - Vaccinate against swine fever after the age of 3 months. |
| | | Coccidial infection | Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days. |
| Cattle | Above 3 months of age | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | Deworming | Give Albendazole @30 ml per 100kg body weight. |
| | | Milk fever | Give mineral mixture@ 60g/day in divided dose to the pregnant ones. |
| | | Fodder cultivation | Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days. |
| Sheep/Goat | All animals | Deworming | Give Albendazole @ 25ml/100kg body weight. |
| | | Management | - Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc. |
| Fishery | | | |
| Type of Farming | Stage | Field | Agro-metrological advisories |
| Carp culture (Common carp & grass carp) | Breeding | pond | <ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp. |
| | Nurseries | Pond and fish | Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day. |
| * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture. | | | |

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 14th May, 2019*District: Senapati***Past weather for the of Imphal West (10th to 13th May, 19):**

No rainfall was observed during the past four days. The skies remained clear to partly cloudy. Maximum temperature ranged from 30.9 – 32.1 °C and minimum of 19.2 – 22.7 °C. Mean relative humidity of 78.5 % max & 48.3 % min was recorded in the past four days & average wind speed was 5.5 – 8.8 km/ hr.

Weather forecast for Senapati (15th to 19th May, 2019):

Likely to have light to moderate rains during next five days. The sky will remain mainly clear with max. temp. 27 - 28 °C & mini. temp. 20 - 21 °C. Relative humidity may reach upto 94 % (max) & 51 % (min). The average wind speed may be 5-6 km/hr.

Field Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|--------------------------------------|--------------------------------------|---------------------------|--|
| Kharif Rice | Nursery to main field preparation | | <ul style="list-style-type: none"> - Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. |
| Pre-kharif Rice | Panicle initiation to Flowering | Leaf folder and case worm | Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. |
| Kharif maize | Land preparation | | - Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. |
| Summer Maize | Cob maturity to harvesting | | - To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water. |
| Soybean/ Groundnut/ Blackgram | Land preparation and Seed collection | | It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha. |
| Seed 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. |

Horticulture Crops

| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
|----------------------------|-------------------------|------------------|--|
| Cauliflower | Nursery | | - Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers. |
| Tree bean | Planting | | Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting. |
| French Bean/ Bhindi | Vegetative to flowering | | - Weeding may be done to avoid insect pest infestation. |
| Turmeric | Vegetative | | - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months. |
| Cucurbits | Flowering to fruiting | | <ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew. |



| Animal Sciences | | | |
|---|----------------------------|---------------------|--|
| Name of bird/ animal | Stage | Disease/ Management | Agro-meteorological advisories |
| Poultry (Chicken/ Duck) | All susceptible age groups | | Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials. |
| Pig | Above 3 months of age | Swine Fever | - Vaccinate against swine fever after the age of 3 months. |
| | | Coccidial infection | Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days. |
| Cattle | Above 3 months of age | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | Deworming | Give Albendazole @30 ml per 100kg body weight. |
| | | Milk fever | Give mineral mixture@ 60g/day in divided dose to the pregnant ones. |
| | | Fodder cultivation | Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days. |
| Sheep/Goat | All animals | Deworming | Give Albendazole @ 25ml/100kg body weight. |
| | | Management | - Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc. |
| Fishery | | | |
| Type of Farming | Stage | Field | Agro-metrological advisories |
| Carp culture (Common carp & grass carp) | Breeding | pond | <ul style="list-style-type: none">▪ Pond should be free from insects, predators, aquatic weeds etc.▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp. |
| | Nurseries | Pond and fish | Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day. |
| * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture. | | | |

(I. Meghachandra Singh)
 Nodal Officer, GKMS