



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

22nd August, 2014

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 23rd to 27th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st August, 2014)

During past three days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 20th August. **0.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 32.7 °C, range of minimum temperature observed was 22.5 – 23.7 °C, mean relative humidity observed in morning and afternoon were 82.3 % and 67.7 % respectively. The average wind speed range was 0.9 – 3.0 km/hr.

Weather forecast for next five days of Chandel (23rd to 27th August, 2014)

There may be moderate to heavy rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 89 % (minimum RH). The average wind speed may be 2-5 km/hr during next five days.

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|----------------------------------|---|--|
| Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides must not be done in next few days. | | | |
| Field Crops | | | |
| Main kharif Rice | Tillering to panicle initiation | | - Ridges may be well constructed to maintain optimum water level of 5-8cm. Drain out excess water due to rains. - After rains, apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. |
| | | Case worm, borer, leaf folder, plant hopper or thrips | Spray Coragen @3ml/15 lit of water or Lambdacythrin @ 15ml/ 15 litre of water (at least three pumps per sangam) after rains. |
| | | Gall midge | - For gall midge, spray Fipronil @ 2g/ 15 lit water after rains. |
| Soybean & Groundnut | Vegetative to flowering/ pegging | | - Drain out excess water to avoid water logging. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. |
| Horticulture Crops | | | |
| Cabbage/ Cauliflower/ Broccoli | Nursery raising | | - Drain out excess water accumulated near the nursery beds at earliest possible to avoid any loss to the crop due to water logging. - Provide moveable/ temporary sheds to protect from rain. - Farmers having polyhouses may raise nurseries of cole crops. Prophylactic and curative measures such as soil fumigation/ soil sterilization against damping off should be strictly followed with either Captan or Sixer. |
| Ginger | Rhizome initiation | Shoot borer/ soft rot | - Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Avoid water logging. Drain out excess water from the field. |
| Turmeric | Rhizome initiation | Taphrine leaf blotch and other leaf spot | - Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field. |



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

| Animal Sciences | | | |
|--|---|--------------------------------|---|
| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. | | | |
| Poultry | All susceptible age groups (as and when required) | Ranikhet disease | Vaccinate against Ranikhet disease. |
| | | Fowl pox | - Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth. |
| | | Management | Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft. |
| | | Parasites (external) | Spray Butox liquid @ 2 ml/ lit of water twice a week. |
| Sheep/ Goat | Above 3 months of age (as and when required) | Enterotoxaemia | Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously. |
| | | Ectoparasites | Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of water) twice a week. |
| Pig | Above 3 months of age (as and when required) | Coccidial infection (Diarrhea) | Ofloxacin tab twice daily for 5 days. |
| | | Deworming | - Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once. |
| | | Ticks | Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. |
| | | | Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed. |
| Cattle / Buffalo/ Mithun | Above 3 months of age (as and when required) | Black Quarter | - B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.) |
| | | Tick | Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval. |
| | | Amphistomiasis | - Tolzan-F @ 30 ml/ 100kg body weight. |
| Fishery: | | | |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp/ Catfish culture | Grow – out/ nurseries | | - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. |
| Paddy cum fish culture | Water management | | - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application. |
| * Encircle the ponds with nylon/plastic nets in order to prevent escape of fish. | | | |

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



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

22nd August, 2014

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 23rd to 27th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st August, 2014)

During past three days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 20th August. **0.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 32.7 °C, range of minimum temperature observed was 22.5 – 23.7 °C, mean relative humidity observed in morning and afternoon were 82.3 % and 67.7 % respectively. The average wind speed range was 0.9 – 3.0 km/hr.

Weather forecast for next five days of Churachandpur (23rd to 27th August, 2014)

There may be moderate to heavy rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 30.0 – 32.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 89 % (minimum RH). The average wind speed may be 2-6 km/hr during next five days.

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|----------------------------------|---|--|
| Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides must not be done in next few days. | | | |
| Field Crops | | | |
| Main kharif Rice | Tillering to panicle initiation | | - Ridges may be well constructed to maintain optimum water level of 5-8cm. Drain out excess water due to rains. - After rains, apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. |
| | | Case worm, borer, leaf folder, plant hopper or thrips | Spray Coragen @3ml/15 lit of water or Lambdacythrin @ 15ml/ 15 litre of water (at least three pumps per sangam) after rains. |
| | | Gall midge | - For gall midge, spray Fipronil @ 2g/ 15 lit water after rains. |
| Soybean & Groundnut | Vegetative to flowering/ pegging | | - Drain out excess water to avoid water logging. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. |
| Horticulture Crops | | | |
| Cabbage/ Cauliflower/ Broccoli | Nursery raising | | - Drain out excess water accumulated near the nursery beds at earliest possible to avoid any loss to the crop due to water logging. - Provide moveable/ temporary sheds to protect from rain. - Farmers having polyhouses may raise nurseries of cole crops. Prophylactic and curative measures such as soil fumigation/ soil sterilization against damping off should be strictly followed with either Captan or Sixer. |
| Ginger | Rhizome initiation | Shoot borer/ soft rot | - Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Avoid water logging. Drain out excess water from the field. |
| Turmeric | Rhizome initiation | Taphrine leaf blotch and other leaf spot | - Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field. |



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“Integrated Agromet Advisory Services”

| Animal Sciences | | | |
|--|---|--------------------------------|---|
| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. | | | |
| Poultry | All susceptible age groups (as and when required) | Ranikhet disease | Vaccinate against Ranikhet disease. |
| | | Fowl pox | - Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth. |
| | | Management | Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft. |
| | | Parasites (external) | Spray Butox liquid @ 2 ml/ lit of water twice a week. |
| Sheep/ Goat | Above 3 months of age (as and when required) | Enterotoxaemia | Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously. |
| | | Ectoparasites | Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of water) twice a week. |
| Pig | Above 3 months of age (as and when required) | Coccidial infection (Diarrhea) | Ofloxacin tab twice daily for 5 days. |
| | | Deworming | - Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once. |
| | | Ticks | Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. |
| | | | Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed. |
| Cattle / Buffalo/ Mithun | Above 3 months of age (as and when required) | Black Quarter | - B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.) |
| | | Tick | Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval. |
| | | Amphistomiasis | - Tolzan-F @ 30 ml/ 100kg body weight. |
| Fishery: | | | |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp/ Catfish culture | Grow – out/ nurseries | | - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. |
| Paddy cum fish culture | Water management | | - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application. |
| * Encircle the ponds with nylon/plastic nets in order to prevent escape of fish. | | | |

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Scientist i/c, GKMS



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MANIPUR BULLETIN

22nd August, 2014

Imphal-East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 23rd to 27th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st August, 2014)

During past three days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 20th August. **0.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 32.7 °C, range of minimum temperature observed was 22.5 – 23.7 °C, mean relative humidity observed in morning and afternoon were 82.3 % and 67.7 % respectively. The average wind speed range was 0.9 – 3.0 km/hr.

Weather forecast for next five days of Imphal-East (23rd to 27th August, 2014)

There may be moderate to heavy rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 31.0 – 32.0 °C & minimum temp. 22.0 – 23.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 86 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|----------------------------------|---|--|
| Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides must not be done in next few days. | | | |
| Field Crops | | | |
| Main kharif Rice | Tillering to panicle initiation | | - Ridges may be well constructed to maintain optimum water level of 5-8cm. Drain out excess water due to rains. - After rains, apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. |
| | | Case worm, borer, leaf folder, plant hopper or thrips | Spray Coragen @3ml/15 lit of water or Lambdacythrin @ 15ml/ 15 litre of water (at least three pumps per sangam) after rains. |
| | | Gall midge | - For gall midge, spray Fipronil @ 2g/ 15 lit water after rains. |
| Soybean & Groundnut | Vegetative to flowering/ pegging | | - Drain out excess water to avoid water logging. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. |
| Horticulture Crops | | | |
| Cabbage/ Cauliflower/ Broccoli | Nursery raising | | - Drain out excess water accumulated near the nursery beds at earliest possible to avoid any loss to the crop due to water logging. - Provide moveable/ temporary sheds to protect from rain. - Farmers having polyhouses may raise nurseries of cole crops. Prophylactic and curative measures such as soil fumigation/ soil sterilization against damping off should be strictly followed with either Captan or Sixer. |
| Ginger | Rhizome initiation | Shoot borer/ soft rot | - Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Avoid water logging. Drain out excess water from the field. |
| Turmeric | Rhizome initiation | Taphrine leaf blotch and other leaf spot | - Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field. |



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“Integrated Agromet Advisory Services”

| Animal Sciences | | | |
|--|---|--------------------------------|---|
| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. | | | |
| Poultry | All susceptible age groups (as and when required) | Ranikhet disease | Vaccinate against Ranikhet disease. |
| | | Fowl pox | - Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth. |
| | | Management | Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft. |
| | | Parasites (external) | Spray Butox liquid @ 2 ml/ lit of water twice a week. |
| Sheep/ Goat | Above 3 months of age (as and when required) | Enterotoxaemia | Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously. |
| | | Ectoparasites | Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of water) twice a week. |
| Pig | Above 3 months of age (as and when required) | Coccidial infection (Diarrhea) | Ofloxacin tab twice daily for 5 days. |
| | | Deworming | - Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once. |
| | | Ticks | Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. |
| | | | Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed. |
| Cattle / Buffalo/ Mithun | Above 3 months of age (as and when required) | Black Quarter | - B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.) |
| | | Tick | Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval. |
| | | Amphistomiasis | - Tolzan-F @ 30 ml/ 100kg body weight. |
| Fishery: | | | |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp/ Catfish culture | Grow – out/ nurseries | | - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. |
| Paddy cum fish culture | Water management | | - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application. |
| * Encircle the ponds with nylon/plastic nets in order to prevent escape of fish. | | | |

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MANIPUR BULLETIN

22nd August, 2014

Imphal-West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 23rd to 27th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st August, 2014)

During past three days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 20th August. **0.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 32.7 °C, range of minimum temperature observed was 22.5 – 23.7 °C, mean relative humidity observed in morning and afternoon were 82.3 % and 67.7 % respectively. The average wind speed range was 0.9 – 3.0 km/hr.

Weather forecast for next five days of Imphal-West (23rd to 27th August, 2014)

There may be moderate to heavy rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 30.0 – 32.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 87 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|----------------------------------|---|--|
| Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides must not be done in next few days. | | | |
| Field Crops | | | |
| Main kharif Rice | Tillering to panicle initiation | | - Ridges may be well constructed to maintain optimum water level of 5-8cm. Drain out excess water due to rains. - After rains, apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. |
| | | Case worm, borer, leaf folder, plant hopper or thrips | Spray Coragen @3ml/15 lit of water or Lambdacythrin @ 15ml/ 15 litre of water (at least three pumps per sangam) after rains. |
| | | Gall midge | - For gall midge, spray Fipronil @ 2g/ 15 lit water after rains. |
| Soybean & Groundnut | Vegetative to flowering/ pegging | | - Drain out excess water to avoid water logging. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. |
| Horticulture Crops | | | |
| Cabbage/ Cauliflower/ Broccoli | Nursery raising | | - Drain out excess water accumulated near the nursery beds at earliest possible to avoid any loss to the crop due to water logging. - Provide moveable/ temporary sheds to protect from rain. - Farmers having polyhouses may raise nurseries of cole crops. Prophylactic and curative measures such as soil fumigation/ soil sterilization against damping off should be strictly followed with either Captan or Sixer. |
| Ginger | Rhizome initiation | Shoot borer/ soft rot | - Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Avoid water logging. Drain out excess water from the field. |
| Turmeric | Rhizome initiation | Taphrine leaf blotch and other leaf spot | - Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field. |



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“Integrated Agromet Advisory Services”

| Animal Sciences | | | |
|--|---|--------------------------------|---|
| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. | | | |
| Poultry | All susceptible age groups (as and when required) | Ranikhet disease | Vaccinate against Ranikhet disease. |
| | | Fowl pox | - Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth. |
| | | Management | Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft. |
| | | Parasites (external) | Spray Butox liquid @ 2 ml/ lit of water twice a week. |
| Sheep/ Goat | Above 3 months of age (as and when required) | Enterotoxaemia | Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously. |
| | | Ectoparasites | Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of water) twice a week. |
| Pig | Above 3 months of age (as and when required) | Coccidial infection (Diarrhea) | Ofloxacin tab twice daily for 5 days. |
| | | Deworming | - Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once. |
| | | Ticks | Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. |
| | | | Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed. |
| Cattle / Buffalo/ Mithun | Above 3 months of age (as and when required) | Black Quarter | - B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.) |
| | | Tick | Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval. |
| | | Amphistomiasis | - Tolzan-F @ 30 ml/ 100kg body weight. |
| Fishery: | | | |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp/ Catfish culture | Grow – out/ nurseries | | - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. |
| Paddy cum fish culture | Water management | | - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application. |
| * Encircle the ponds with nylon/plastic nets in order to prevent escape of fish. | | | |

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Scientist i/c, GKMS



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22nd August, 2014

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 23rd to 27th August, 2014 as given below:

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Weather forecast for next five days of Senapati (23rd to 27th August, 2014)

There may be moderate to heavy rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 86 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|----------------------------------|---|--|
| Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides must not be done in next few days. | | | |
| Field Crops | | | |
| Main kharif Rice | Tillering to panicle initiation | | - Ridges may be well constructed to maintain optimum water level of 5-8cm. Drain out excess water due to rains. - After rains, apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. |
| | | Case worm, borer, leaf folder, plant hopper or thrips | Spray Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam) after rains. |
| | | Gall midge | - For gall midge, spray Fipronil @ 2g/ 15 lit water after rains. |
| Soybean & Groundnut | Vegetative to flowering/ pegging | | - Drain out excess water to avoid water logging. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. |
| Horticulture Crops | | | |
| Cabbage/ Cauliflower/ Broccoli | Nursery raising | | - Drain out excess water accumulated near the nursery beds at earliest possible to avoid any loss to the crop due to water logging. - Provide moveable/ temporary sheds to protect from rain. - Farmers having polyhouses may raise nurseries of cole crops. Prophylactic and curative measures such as soil fumigation/ soil sterilization against damping off should be strictly followed with either Captan or Sixer. |
| Ginger | Rhizome initiation | Shoot borer/ soft rot | - Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Avoid water logging. Drain out excess water from the field. |
| Turmeric | Rhizome initiation | Taphrine leaf blotch and other leaf spot | - Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field. |



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



“Integrated Agromet Advisory Services”

| Animal Sciences | | | |
|--|---|--------------------------------|---|
| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. | | | |
| Poultry | All susceptible age groups (as and when required) | Ranikhet disease | Vaccinate against Ranikhet disease. |
| | | Fowl pox | - Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth. |
| | | Management | Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft. |
| | | Parasites (external) | Spray Butox liquid @ 2 ml/ lit of water twice a week. |
| Sheep/ Goat | Above 3 months of age (as and when required) | Enterotoxaemia | Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously. |
| | | Ectoparasites | Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of water) twice a week. |
| Pig | Above 3 months of age (as and when required) | Coccidial infection (Diarrhea) | Ofloxacin tab twice daily for 5 days. |
| | | Deworming | - Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once. |
| | | Ticks | Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. |
| | | | Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed. |
| Cattle / Buffalo/ Mithun | Above 3 months of age (as and when required) | Black Quarter | - B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.) |
| | | Tick | Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval. |
| | | Amphistomiasis | - Tolzan-F @ 30 ml/ 100kg body weight. |
| Fishery: | | | |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp/ Catfish culture | Grow – out/ nurseries | | - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. |
| Paddy cum fish culture | Water management | | - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application. |
| * Encircle the ponds with nylon/plastic nets in order to prevent escape of fish. | | | |

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



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

22nd August, 2014

Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 23rd to 27th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st August, 2014)

During past three days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 20th August. **0.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 32.7 °C, range of minimum temperature observed was 22.5 – 23.7 °C, mean relative humidity observed in morning and afternoon were 82.3 % and 67.7 % respectively. The average wind speed range was 0.9 – 3.0 km/hr.

Weather forecast for next five days of Tamenglong (23rd to 27th August, 2014)

There may be moderate to heavy rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 30.0 – 32.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 88 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|----------------------------------|---|--|
| Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides must not be done in next few days. | | | |
| Field Crops | | | |
| Main kharif Rice | Tillering to panicle initiation | | - Ridges may be well constructed to maintain optimum water level of 5-8cm. Drain out excess water due to rains. - After rains, apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. |
| | | Case worm, borer, leaf folder, plant hopper or thrips | Spray Coragen @3ml/15 lit of water or Lambdacythrin @ 15ml/ 15 litre of water (at least three pumps per sangam) after rains. |
| | | Gall midge | - For gall midge, spray Fipronil @ 2g/ 15 lit water after rains. |
| Soybean & Groundnut | Vegetative to flowering/ pegging | | - Drain out excess water to avoid water logging. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. |
| Horticulture Crops | | | |
| Cabbage/ Cauliflower/ Broccoli | Nursery raising | | - Drain out excess water accumulated near the nursery beds at earliest possible to avoid any loss to the crop due to water logging. - Provide moveable/ temporary sheds to protect from rain. - Farmers having polyhouses may raise nurseries of cole crops. Prophylactic and curative measures such as soil fumigation/ soil sterilization against damping off should be strictly followed with either Captan or Sixer. |
| Ginger | Rhizome initiation | Shoot borer/ soft rot | - Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Avoid water logging. Drain out excess water from the field. |
| Turmeric | Rhizome initiation | Taphrine leaf blotch and other leaf spot | - Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field. |



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



“Integrated Agromet Advisory Services”

| Animal Sciences | | | |
|--|---|--------------------------------|---|
| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. | | | |
| Poultry | All susceptible age groups (as and when required) | Ranikhet disease | Vaccinate against Ranikhet disease. |
| | | Fowl pox | - Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth. |
| | | Management | Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft. |
| | | Parasites (external) | Spray Butox liquid @ 2 ml/ lit of water twice a week. |
| Sheep/ Goat | Above 3 months of age (as and when required) | Enterotoxaemia | Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously. |
| | | Ectoparasites | Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of water) twice a week. |
| Pig | Above 3 months of age (as and when required) | Coccidial infection (Diarrhea) | Ofloxacin tab twice daily for 5 days. |
| | | Deworming | - Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once. |
| | | Ticks | Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. |
| | | | Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed. |
| Cattle / Buffalo/ Mithun | Above 3 months of age (as and when required) | Black Quarter | - B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.) |
| | | Tick | Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval. |
| | | Amphistomiasis | - Tolzan-F @ 30 ml/ 100kg body weight. |
| Fishery: | | | |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp/ Catfish culture | Grow – out/ nurseries | | - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. |
| Paddy cum fish culture | Water management | | - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application. |
| * Encircle the ponds with nylon/plastic nets in order to prevent escape of fish. | | | |

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Scientist i/c, GKMS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

22nd August, 2014

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 23rd to 27th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st August, 2014)

During past three days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 20th August. **0.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 32.7 °C, range of minimum temperature observed was 22.5 – 23.7 °C, mean relative humidity observed in morning and afternoon were 82.3 % and 67.7 % respectively. The average wind speed range was 0.9 – 3.0 km/hr.

Weather forecast for next five days of Thoubal (23rd to 27th August, 2014)

There may be moderate to heavy rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 20.0 – 22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 92 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|----------------------------------|---|--|
| Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides must not be done in next few days. | | | |
| Field Crops | | | |
| Main kharif Rice | Tillering to panicle initiation | | - Ridges may be well constructed to maintain optimum water level of 5-8cm. Drain out excess water due to rains. - After rains, apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. |
| | | Case worm, borer, leaf folder, plant hopper or thrips | Spray Coragen @3ml/15 lit of water or Lambdacythrin @ 15ml/ 15 litre of water (at least three pumps per sangam) after rains. |
| | | Gall midge | - For gall midge, spray Fipronil @ 2g/ 15 lit water after rains. |
| Soybean & Groundnut | Vegetative to flowering/ pegging | | - Drain out excess water to avoid water logging. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. |
| Horticulture Crops | | | |
| Cabbage/ Cauliflower/ Broccoli | Nursery raising | | - Drain out excess water accumulated near the nursery beds at earliest possible to avoid any loss to the crop due to water logging. - Provide moveable/ temporary sheds to protect from rain. - Farmers having polyhouses may raise nurseries of cole crops. Prophylactic and curative measures such as soil fumigation/ soil sterilization against damping off should be strictly followed with either Captan or Sixer. |
| Ginger | Rhizome initiation | Shoot borer/ soft rot | - Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Avoid water logging. Drain out excess water from the field. |
| Turmeric | Rhizome initiation | Taphrine leaf blotch and other leaf spot | - Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field. |



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



“Integrated Agromet Advisory Services”

| Animal Sciences | | | |
|--|---|--------------------------------|---|
| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. | | | |
| Poultry | All susceptible age groups (as and when required) | Ranikhet disease | Vaccinate against Ranikhet disease. |
| | | Fowl pox | - Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth. |
| | | Management | Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft. |
| | | Parasites (external) | Spray Butox liquid @ 2 ml/ lit of water twice a week. |
| Sheep/ Goat | Above 3 months of age (as and when required) | Enterotoxaemia | Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously. |
| | | Ectoparasites | Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of water) twice a week. |
| Pig | Above 3 months of age (as and when required) | Coccidial infection (Diarrhea) | Ofloxacin tab twice daily for 5 days. |
| | | Deworming | - Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once. |
| | | Ticks | Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. |
| | | | Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed. |
| Cattle / Buffalo/ Mithun | Above 3 months of age (as and when required) | Black Quarter | - B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.) |
| | | Tick | Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval. |
| | | Amphistomiasis | - Tolzan-F @ 30 ml/ 100kg body weight. |
| Fishery: | | | |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp/ Catfish culture | Grow – out/ nurseries | | - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. |
| Paddy cum fish culture | Water management | | - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application. |
| * Encircle the ponds with nylon/plastic nets in order to prevent escape of fish. | | | |

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



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

22nd August, 2014

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 23rd to 27th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st August, 2014)

During past three days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 20th August. **0.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 32.7 °C, range of minimum temperature observed was 22.5 – 23.7 °C, mean relative humidity observed in morning and afternoon were 82.3 % and 67.7 % respectively. The average wind speed range was 0.9 – 3.0 km/hr.

Weather forecast for next five days of Ukhrul (23rd to 27th August, 2014)

There may be moderate to heavy rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 28.0 – 30.0 °C & minimum temp. 17.0 – 19.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 86 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|----------------------------------|---|--|
| Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides must not be done in next few days. | | | |
| Field Crops | | | |
| Main kharif Rice | Tillering to panicle initiation | | - Ridges may be well constructed to maintain optimum water level of 5-8cm. Drain out excess water due to rains. - After rains, apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. |
| | | Case worm, borer, leaf folder, plant hopper or thrips | Spray Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam) after rains. |
| | | Gall midge | - For gall midge, spray Fipronil @ 2g/ 15 lit water after rains. |
| Soybean & Groundnut | Vegetative to flowering/ pegging | | - Drain out excess water to avoid water logging. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. |
| Horticulture Crops | | | |
| Cabbage/ Cauliflower/ Broccoli | Nursery raising | | - Drain out excess water accumulated near the nursery beds at earliest possible to avoid any loss to the crop due to water logging. - Provide moveable/ temporary sheds to protect from rain. - Farmers having polyhouses may raise nurseries of cole crops. Prophylactic and curative measures such as soil fumigation/ soil sterilization against damping off should be strictly followed with either Captan or Sixer. |
| Ginger | Rhizome initiation | Shoot borer/ soft rot | - Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Avoid water logging. Drain out excess water from the field. |
| Turmeric | Rhizome initiation | Taphrine leaf blotch and other leaf spot | - Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field. |



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



“Integrated Agromet Advisory Services”

| Animal Sciences | | | |
|--|---|--------------------------------|---|
| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. | | | |
| Poultry | All susceptible age groups (as and when required) | Ranikhet disease | Vaccinate against Ranikhet disease. |
| | | Fowl pox | - Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth. |
| | | Management | Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft. |
| | | Parasites (external) | Spray Butox liquid @ 2 ml/ lit of water twice a week. |
| Sheep/ Goat | Above 3 months of age (as and when required) | Enterotoxaemia | Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously. |
| | | Ectoparasites | Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of water) twice a week. |
| Pig | Above 3 months of age (as and when required) | Coccidial infection (Diarrhea) | Ofloxacin tab twice daily for 5 days. |
| | | Deworming | - Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once. |
| | | Ticks | Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. |
| | | | Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed. |
| Cattle / Buffalo/ Mithun | Above 3 months of age (as and when required) | Black Quarter | - B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.) |
| | | Tick | Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval. |
| | | Amphistomiasis | - Tolzan-F @ 30 ml/ 100kg body weight. |
| Fishery: | | | |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp/ Catfish culture | Grow – out/ nurseries | | - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. |
| Paddy cum fish culture | Water management | | - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application. |
| * Encircle the ponds with nylon/plastic nets in order to prevent escape of fish. | | | |

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



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

22nd August, 2014

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 23rd to 27th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st August, 2014)

During past three days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 20th August. **0.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 32.7 °C, range of minimum temperature observed was 22.5 – 23.7 °C, mean relative humidity observed in morning and afternoon were 82.3 % and 67.7 % respectively. The average wind speed range was 0.9 – 3.0 km/hr.

Weather forecast for next five days of Bishnupur (23rd to 27th August, 2014)

There may be moderate to heavy rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 91 % (minimum RH). The average wind speed may be 2-6 km/hr during next five days.

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|----------------------------------|---|--|
| Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides must not be done in next few days. | | | |
| Field Crops | | | |
| Main kharif Rice | Tillering to panicle initiation | | - Ridges may be well constructed to maintain optimum water level of 5-8cm. Drain out excess water due to rains. - After rains, apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. |
| | | Case worm, borer, leaf folder, plant hopper or thrips | Spray Coragen @3ml/15 lit of water or Lambdacythrin @ 15ml/ 15 litre of water (at least three pumps per sangam) after rains. |
| | | Gall midge | - For gall midge, spray Fipronil @ 2g/ 15 lit water after rains. |
| Soybean & Groundnut | Vegetative to flowering/ pegging | | - Drain out excess water to avoid water logging. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. |
| Horticulture Crops | | | |
| Cabbage/ Cauliflower/ Broccoli | Nursery raising | | - Drain out excess water accumulated near the nursery beds at earliest possible to avoid any loss to the crop due to water logging. - Provide moveable/ temporary sheds to protect from rain. - Farmers having polyhouses may raise nurseries of cole crops. Prophylactic and curative measures such as soil fumigation/ soil sterilization against damping off should be strictly followed with either Captan or Sixer. |
| Ginger | Rhizome initiation | Shoot borer/ soft rot | - Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. - Avoid water logging. Drain out excess water from the field. |
| Turmeric | Rhizome initiation | Taphrine leaf blotch and other leaf spot | - Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field. |



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



“Integrated Agromet Advisory Services”

| Animal Sciences | | | |
|--|---|--------------------------------|---|
| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. | | | |
| Poultry | All susceptible age groups (as and when required) | Ranikhet disease | Vaccinate against Ranikhet disease. |
| | | Fowl pox | - Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth. |
| | | Management | Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft. |
| | | Parasites (external) | Spray Butox liquid @ 2 ml/ lit of water twice a week. |
| Sheep/ Goat | Above 3 months of age (as and when required) | Enterotoxaemia | Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub-cutaneously. |
| | | Ectoparasites | Brush the animal using medicated solution (Butox liquid @ 2 ml/ lit of water) twice a week. |
| Pig | Above 3 months of age (as and when required) | Coccidial infection (Diarrhea) | Ofloxacin tab twice daily for 5 days. |
| | | Deworming | - Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once. |
| | | Ticks | Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. |
| | | | Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed. |
| Cattle / Buffalo/ Mithun | Above 3 months of age (as and when required) | Black Quarter | - B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.) |
| | | Tick | Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval. |
| | | Amphistomiasis | - Tolzan-F @ 30 ml/ 100kg body weight. |
| Fishery: | | | |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp/ Catfish culture | Grow – out/ nurseries | | - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. |
| Paddy cum fish culture | Water management | | - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application. |
| * Encircle the ponds with nylon/plastic nets in order to prevent escape of fish. | | | |

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