



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

24th September, 2013

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 25th to 29th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd September, 2013)

During the past four days the sky was mainly cloudy to cloudy but mainly clear from afternoon hours of 21st to 22nd Sept. No rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 34.0 °C, range of minimum temperature observed was 20.0 – 22.0 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 63.75 % respectively. The average wind speed range was 0.9 – 1.8 km/hr.

Weather forecast for next five days of Bishnupur (25th to 29th September, 2013)

It is likely to rains during next five days. The sky may be partly cloudy on 25th then mainly cloudy to cloudy upto 29th with maximum temp. of 28.0 - 31.0 °C and minimum temp. of 19.0 – 22.0 °C. The maximum RH may attain max of 100 % and minimum RH of 82 %. The average wind speed during next five days may be 0-4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|---------------------------------|--------------------------------------|---|
| Field Crops | | | |
| * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump. | | | |
| * All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs. | | | |
| Rice | Panicle initiation to flowering | | - After rains, weed out and top dress with remaining urea dose @ 33 Kg/ ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage. |
| | | Sheath rot | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. |
| | | Smut disease of rice | Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage. |
| | | Sheath blight/ Bakani | Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water. |
| | | Borer | Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. |
| | | Case worm, leaf folder, whorl maggot | Lambdacythrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam). |
| | | Gall midge | Thiomethoxam @ 5g/ 15 lit water. |
| | | Bacterial leaf blight | Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam). |
| | | Plant hopper or any sucking insect | Imidachloprid @ 7ml/ 15 litres of water. |
| Soybean | Pod formation | Rust | - Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water. |
| Groundnut | Pegging | Tikka disease Rust | - Earthing up must be done at peg formation stage done after rains. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water. |
| Blackgram / rice bean | Vegetative to flowering | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after rains. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. |
| Horticulture Crops | | | |



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| | | | |
|--|-----------------------|--|--|
| Ginger/ Turmeric | Rhizome formation | - Leaf blotch & Leaf Spot - Shoot borer | - After rains, spray <i>Mancozeb</i> @ 2 g/ lit of water at 15 to 10 days interval depending upon the severity of incidence. - Apply <i>Malathion</i> @ 2ml/lit of water or <i>Monocrotophos</i> @ 1 ml/litre of water twice at 7 – 10 days interval. |
| Onion | Nursery | | Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. |
| Brinjal | Flowering to fruiting | Fruit and shoot borer | - Spray <i>Deltamethrin</i> @ 7 ml/ 10 lit of water after rains. |
| Rabi vegetables | Land preparation | | Procure good quality seeds of. Prepare land for sowing or planting carrot, radish, coriander, cauliflower, cabbage, broccoli, etc. after rains. |
| Garden pea/ french bean/ broad bean | Land preparation | | - Sowing of pea/ French bean/ broad bean may be done in upland area after rains. |

Animal Sciences

| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
|-------------------------------------|----------------------------|----------------------|---|
| Poultry/ Duckery | All susceptible age groups | Ectoparasites | - Spray <i>Butox</i> over the flock @ 3ml in 1 lit of water once a week. |
| | | Endoparasite | - Administer <i>Albend</i> @ 30 ml/100 birds in drinking water accompanied with <i>Brotone</i> liquid @ 5-10 ml/ 100 birds. |
| | | <i>Coccidiosis</i> | - Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days. |
| | | Deworming | - <i>Piperazine</i> liquid @ 40ml/ 100 birds in drinking water may be administered. |
| Sheep/ Goat | Above 3 months of age | Deworming | - Administer <i>Banif Bolus</i> orally 2 1 bolus/ 100 kg b. wt. |
| Pig | Above 3 months of age | Helminth parasite | - Administer <i>Albend</i> @ 15 ml orally once for adult. |
| | | <i>Coccidiosis</i> | - Administer <i>Piperazine</i> liquid @ 10ml orally per adult once only. |
| | | Ectoparasites | - Spray <i>Butox</i> @ 2ml in 1 lit of water, twice a week. |
| Cattle / Buffalo/ Mithun | Above 3 months of age | Helminth parasite | - Administer <i>Nilzan-90ml</i> suspension @90ml for 300 kg b. wt. |
| | | Ecto parasite | - Spray <i>Topicure</i> solution, twice a week at fortnightly interval. |
| | | B.Q. and H.S. | - Vaccinate against B.Q. & H.S. |

Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

| Type of Farming | Stage | Management | Agro-metrological advisories |
|------------------------|----------------|------------|---|
| Carp culture | Grow-out | Pond water | Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water. |
| | 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. 20-30 million spawn can be stock in 1 ha pond |
| Paddy cum fish culture | Water | | Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture. |
| Cat fish (Ngakra) | Pond and water | | Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval |
| | Feed | | Feed with high protein content 35-40% CP should be given @ 5-8% body weight. |

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray *Kocide* @5g/15lit water.

Pig: *Coccidiosis*- *Piperazine* liq @10ml

I. Meghachandra Singh
Scientist i/c, IAAS



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MANIPUR BULLETIN

24th September, 2013

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 25th to 29th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of
Imphal - West (20th to 23rd September, 2013)

During the past four days the sky was mainly cloudy to cloudy but mainly clear from afternoon hours of 21st to 22nd Sept. No rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 34.0 °C, range of minimum temperature observed was 20.0 – 22.0 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 63.75 % respectively. The average wind speed range was 0.9 – 1.8 km/hr.

Weather forecast for next five days of Chandel (25th to 29th
September, 2013)

It is likely to rains during next five days. The sky may be partly cloudy on 25th then mainly cloudy to cloudy upto 29th with maximum temp. of 29.0 - 32.0 °C and minimum temp. of 20.0 – 22.0 °C. The maximum RH may attain max of 100 % and minimum RH of 91 %. The average wind speed during next five days may be 2-4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|---------------------------------|--------------------------------------|---|
| Field Crops | | | |
| * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump. | | | |
| * All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs. | | | |
| Rice | Panicle initiation to flowering | | - After rains, weed out and top dress with remaining urea dose @ 33 Kg/ ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage. |
| | | Sheath rot | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. |
| | | Smut disease of rice | Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage. |
| | | Sheath blight/ Bakani | Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water. |
| | | Borer | Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. |
| | | Case worm, leaf folder, whorl maggot | Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam). |
| | | Gall midge | Thiomethoxam @ 5g/ 15 lit water. |
| | | Bacterial leaf blight | Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam). |
| | | Plant hopper or any sucking insect | Imidachloprid @ 7ml/ 15 litres of water. |
| Soybean | Pod formation | Rust | - Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water. |
| Groundnut | Pegging | Tikka disease Rust | - Earthing up must be done at peg formation stage done after rains. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water. |
| Blackgram / rice bean | Vegetative to flowering | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after rains. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. |
| Horticulture Crops | | | |



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| Ginger/ Turmeric | Rhizome formation | - Leaf blotch & Leaf Spot - Shoot borer | - After rains, spray <i>Mancozeb</i> @ 2 g/ lit of water at 15 to 10 days interval depending upon the severity of incidence. - Apply <i>Malathion</i> @ 2ml/lit of water or <i>Monocrotophos</i> @ 1 ml/litre of water twice at 7 – 10 days interval. |
| Onion | Nursery | | Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. |
| Brinjal | Flowering to fruiting | Fruit and shoot borer | - Spray <i>Deltamethrin</i> @ 7 ml/ 10 lit of water after rains. |
| Rabi vegetables | Land preparation | | Procure good quality seeds of. Prepare land for sowing or planting carrot, radish, coriander, cauliflower, cabbage, broccoli, etc. after rains. |
| Garden pea/ french bean/ broad bean | Land preparation | | - Sowing of pea/ French bean/ broad bean may be done in upland area after rains. |

Animal Sciences

| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
|-------------------------------------|----------------------------|----------------------|---|
| Poultry/ Duckery | All susceptible age groups | Ectoparasites | - Spray <i>Butox</i> over the flock @ 3ml in 1 lit of water once a week. |
| | | Endoparasite | - Administer <i>Albend</i> @ 30 ml/100 birds in drinking water accompanied with <i>Brotone</i> liquid @ 5-10 ml/ 100 birds. |
| | | <i>Coccidiosis</i> | - Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days. |
| | | Deworming | - <i>Piperazine</i> liquid @ 40ml/ 100 birds in drinking water may be administered. |
| Sheep/ Goat | Above 3 months of age | Deworming | - Administer <i>Banif Bolus</i> orally 2 1 bolus/ 100 kg b. wt. |
| Pig | Above 3 months of age | Helminth parasite | - Administer <i>Albend</i> @ 15 ml orally once for adult. |
| | | <i>Coccidiosis</i> | - Administer <i>Piperazine</i> liquid @ 10ml orally per adult once only. |
| | | Ectoparasites | - Spray <i>Butox</i> @ 2ml in 1 lit of water, twice a week. |
| Cattle / Buffalo/ Mithun | Above 3 months of age | Helminth parasite | - Administer <i>Nilzan-90ml</i> suspension @90ml for 300 kg b. wt. |
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| | | B.Q. and H.S. | - Vaccinate against B.Q. & H.S. |

Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

| Type of Farming | Stage | Management | Agro-metrological advisories |
|------------------------|----------------|------------|---|
| Carp culture | Grow-out | Pond water | Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water. |
| | 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. 20-30 million spawn can be stock in 1 ha pond |
| Paddy cum fish culture | Water | | Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture. |
| Cat fish (Ngakra) | Pond and water | | Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval |
| | Feed | | Feed with high protein content 35-40% CP should be given @ 5-8% body weight. |

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray *Kocide* @5g/15lit water.

Pig: *Coccidiosis*- *Piperazine* liq @10ml

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MANIPUR BULLETIN

24th September, 2013

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 25th to 29th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd September, 2013)

During the past four days the sky was mainly cloudy to cloudy but mainly clear from afternoon hours of 21st to 22nd Sept. No rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 34.0 °C, range of minimum temperature observed was 20.0 – 22.0 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 63.75 % respectively. The average wind speed range was 0.9 – 1.8 km/hr.

Weather forecast for next five days of Churachandpur (25th to 29th September, 2013)

It is likely to rains during next five days. The sky may be partly cloudy on 25th then mainly cloudy to cloudy upto 29th with maximum temp. of 29.0 - 31.0 °C and minimum temp. of 19.0 – 21.0 °C. The maximum RH may attain max of 100 % and minimum RH of 86 %. The average wind speed during next five days may be 0-4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|---------------------------------|--------------------------------------|---|
| Field Crops | | | |
| * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump. | | | |
| * All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs. | | | |
| Rice | Panicle initiation to flowering | | - After rains, weed out and top dress with remaining urea dose @ 33 Kg/ ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage. |
| | | Sheath rot | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. |
| | | Smut disease of rice | Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage. |
| | | Sheath blight/ Bakani | Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water. |
| | | Borer | Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. |
| | | Case worm, leaf folder, whorl maggot | Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam). |
| | | Gall midge | Thiomethoxam @ 5g/ 15 lit water. |
| | | Bacterial leaf blight | Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam). |
| | | Plant hopper or any sucking insect | Imidachloprid @ 7ml/ 15 litres of water. |
| Soybean | Pod formation | Rust | - Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water. |
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| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. |
| Horticulture Crops | | | |



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Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

| Type of Farming | Stage | Management | Agro-metrological advisories |
|------------------------|----------------|------------|---|
| Carp culture | Grow-out | Pond water | Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water. |
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ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray *Kocide* @5g/15lit water.

Pig: *Coccidiosis*- *Piperazine* liq @10ml

I. Meghachandra Singh
Scientist i/c, IAAS



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MANIPUR BULLETIN

24th September, 2013

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 25th to 29th September, 2013 as given below:

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Weather forecast for next five days of Imphal - East (25th to 29th September, 2013)

It is likely to rains during next five days. The sky may be partly cloudy on 25th then mainly cloudy to cloudy upto 29th with maximum temp. of 28.0 - 32.0 °C and minimum temp. of 19.0 – 21.0 °C. The maximum RH may attain max of 100 % and minimum RH of 90 %. The average wind speed during next five days may be 2-3 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

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Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|---------------------------------|--------------------------------------|---|
| Field Crops | | | |
| * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump. | | | |
| * All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs. | | | |
| Rice | Panicle initiation to flowering | | - After rains, weed out and top dress with remaining urea dose @ 33 Kg/ ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage. |
| | | Sheath rot | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. |
| | | Smut disease of rice | Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage. |
| | | Sheath blight/ Bakani | Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water. |
| | | Borer | Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. |
| | | Case worm, leaf folder, whorl maggot | Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam). |
| | | Gall midge | Thiomethoxam @ 5g/ 15 lit water. |
| | | Bacterial leaf blight | Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam). |
| | | Plant hopper or any sucking insect | Imidachloprid @ 7ml/ 15 litres of water. |
| Soybean | Pod formation | Rust | - Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water. |
| Groundnut | Pegging | Tikka disease Rust | - Earthing up must be done at peg formation stage done after rains. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water. |
| Blackgram / rice bean | Vegetative to flowering | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after rains. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. |
| Horticulture Crops | | | |



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



“Integrated Agromet Advisory Services”

| | | | |
|--|-----------------------|--|--|
| Ginger/ Turmeric | Rhizome formation | - Leaf blotch & Leaf Spot - Shoot borer | - After rains, spray <i>Mancozeb</i> @ 2 g/ lit of water at 15 to 10 days interval depending upon the severity of incidence. - Apply <i>Malathion</i> @ 2ml/lit of water or <i>Monocrotophos</i> @ 1 ml/litre of water twice at 7 – 10 days interval. |
| Onion | Nursery | | Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. |
| Brinjal | Flowering to fruiting | Fruit and shoot borer | - Spray <i>Deltamethrin</i> @ 7 ml/ 10 lit of water after rains. |
| Rabi vegetables | Land preparation | | Procure good quality seeds of. Prepare land for sowing or planting carrot, radish, coriander, cauliflower, cabbage, broccoli, etc. after rains. |
| Garden pea/ french bean/ broad bean | Land preparation | | - Sowing of pea/ French bean/ broad bean may be done in upland area after rains. |

Animal Sciences

| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
|-------------------------------------|----------------------------|----------------------|---|
| Poultry/ Duckery | All susceptible age groups | Ectoparasites | - Spray <i>Butox</i> over the flock @ 3ml in 1 lit of water once a week. |
| | | Endoparasite | - Administer <i>Albend</i> @ 30 ml/100 birds in drinking water accompanied with <i>Brotone</i> liquid @ 5-10 ml/ 100 birds. |
| | | <i>Coccidiosis</i> | - Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days. |
| | | Deworming | - <i>Piperazine</i> liquid @ 40ml/ 100 birds in drinking water may be administered. |
| Sheep/ Goat | Above 3 months of age | Deworming | - Administer <i>Banif Bolus</i> orally 2 1 bolus/ 100 kg b. wt. |
| Pig | Above 3 months of age | Helminth parasite | - Administer <i>Albend</i> @ 15 ml orally once for adult. |
| | | <i>Coccidiosis</i> | - Administer <i>Piperazine</i> liquid @ 10ml orally per adult once only. |
| | | Ectoparasites | - Spray <i>Butox</i> @ 2ml in 1 lit of water, twice a week. |
| Cattle / Buffalo/ Mithun | Above 3 months of age | Helminth parasite | - Administer <i>Nilzan-90ml</i> suspension @90ml for 300 kg b. wt. |
| | | Ecto parasite | - Spray <i>Topicure</i> solution, twice a week at fortnightly interval. |
| | | B.Q. and H.S. | - Vaccinate against B.Q. & H.S. |

Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

| Type of Farming | Stage | Management | Agro-metrological advisories |
|------------------------|----------------|------------|---|
| Carp culture | Grow-out | Pond water | Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water. |
| | 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. 20-30 million spawn can be stock in 1 ha pond |
| Paddy cum fish culture | Water | | Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture. |
| Cat fish (Ngakra) | Pond and water | | Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval |
| | Feed | | Feed with high protein content 35-40% CP should be given @ 5-8% body weight. |

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray *Kocide* @5g/15lit water.

Pig: *Coccidiosis*- *Piperazine* liq @10ml

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

24th September, 2013

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 25th to 29th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd September, 2013)

During the past four days the sky was mainly cloudy to cloudy but mainly clear from afternoon hours of 21st to 22nd Sept. No rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 34.0 °C, range of minimum temperature observed was 20.0 – 22.0 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 63.75 % respectively. The average wind speed range was 0.9 – 1.8 km/hr.

Weather forecast for next five days of Imphal - West (25th to 29th September, 2013)

It is likely to rains during next five days. The sky may be partly cloudy on 25th then mainly cloudy to cloudy upto 29th with maximum temp. of 28.0 - 31.0 °C and minimum temp. of 19.0 – 20.0 °C. The maximum RH may attain max of 100 % and minimum RH of 82 %. The average wind speed during next five days may be 0-2 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|---------------------------------|--------------------------------------|--|
| Field Crops | | | |
| * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump. | | | |
| * All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs. | | | |
| Rice | Panicle initiation to flowering | | - After rains, weed out and top dress with remaining urea dose @ 33 Kg/ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage. |
| | | Sheath rot | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. |
| | | Smut disease of rice | Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage. |
| | | Sheath blight/ Bakani | Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water. |
| | | Borer | Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. |
| | | Case worm, leaf folder, whorl maggot | Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam). |
| | | Gall midge | Thiomethoxam @ 5g/ 15 lit water. |
| | | Bacterial leaf blight | Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam). |
| | | Plant hopper or any sucking insect | Imidachloprid @ 7ml/ 15 litres of water. |
| Soybean | Pod formation | Rust | - Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water. |
| Groundnut | Pegging | Tikka disease Rust | - Earthing up must be done at peg formation stage done after rains. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water. |
| Blackgram / rice bean | Vegetative to flowering | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after rains. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. |
| Horticulture Crops | | | |



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

| | | | |
|--|-----------------------|--|--|
| Ginger/ Turmeric | Rhizome formation | - Leaf blotch & Leaf Spot - Shoot borer | - After rains, spray <i>Mancozeb</i> @ 2 g/ lit of water at 15 to 10 days interval depending upon the severity of incidence. - Apply <i>Malathion</i> @ 2ml/lit of water or <i>Monocrotophos</i> @ 1 ml/litre of water twice at 7 – 10 days interval. |
| Onion | Nursery | | Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. |
| Brinjal | Flowering to fruiting | Fruit and shoot borer | - Spray <i>Deltamethrin</i> @ 7 ml/ 10 lit of water after rains. |
| Rabi vegetables | Land preparation | | Procure good quality seeds of. Prepare land for sowing or planting carrot, radish, coriander, cauliflower, cabbage, broccoli, etc. after rains. |
| Garden pea/ french bean/ broad bean | Land preparation | | - Sowing of pea/ French bean/ broad bean may be done in upland area after rains. |

Animal Sciences

| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
|-------------------------------------|----------------------------|----------------------|---|
| Poultry/ Duckery | All susceptible age groups | Ectoparasites | - Spray <i>Butox</i> over the flock @ 3ml in 1 lit of water once a week. |
| | | Endoparasite | - Administer <i>Albend</i> @ 30 ml/100 birds in drinking water accompanied with <i>Brotone</i> liquid @ 5-10 ml/ 100 birds. |
| | | <i>Coccidiosis</i> | - Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days. |
| | | Deworming | - <i>Piperazine</i> liquid @ 40ml/ 100 birds in drinking water may be administered. |
| Sheep/ Goat | Above 3 months of age | Deworming | - Administer <i>Banif Bolus</i> orally 2 1 bolus/ 100 kg b. wt. |
| Pig | Above 3 months of age | Helminth parasite | - Administer <i>Albend</i> @ 15 ml orally once for adult. |
| | | <i>Coccidiosis</i> | - Administer <i>Piperazine</i> liquid @ 10ml orally per adult once only. |
| | | Ectoparasites | - Spray <i>Butox</i> @ 2ml in 1 lit of water, twice a week. |
| Cattle / Buffalo/ Mithun | Above 3 months of age | Helminth parasite | - Administer <i>Nilzan-90ml</i> suspension @90ml for 300 kg b. wt. |
| | | Ecto parasite | - Spray <i>Topicure</i> solution, twice a week at fortnightly interval. |
| | | B.Q. and H.S. | - Vaccinate against B.Q. & H.S. |

Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

| Type of Farming | Stage | Management | Agro-metrological advisories |
|------------------------|----------------|------------|---|
| Carp culture | Grow-out | Pond water | Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water. |
| | 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. 20-30 million spawn can be stock in 1 ha pond |
| Paddy cum fish culture | Water | | Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture. |
| Cat fish (Ngakra) | Pond and water | | Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval |
| | Feed | | Feed with high protein content 35-40% CP should be given @ 5-8% body weight. |

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray *Kocide* @5g/15lit water.

Pig: *Coccidiosis*- *Piperazine* liq @10ml

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

24th September, 2013

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 25th to 29th September, 2013 as given below:

| | |
|--|--|
| <p><u>Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd September, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but mainly clear from afternoon hours of 21st to 22nd Sept. No rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 34.0 °C, range of minimum temperature observed was 20.0 – 22.0 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 63.75 % respectively. The average wind speed range was 0.9 – 1.8 km/hr.</p> | <p><u>Weather forecast for next five days of Senapati (25th to 29th September, 2013)</u></p> <p>It is likely to rains during next five days. The sky may be partly cloudy on 25th then mainly cloudy to cloudy upto 29th with maximum temp. of 27.0 - 30.0 °C and minimum temp. of 18.0 – 20.0 °C. The maximum RH may attain max of 100 % and minimum RH of 84 %. The average wind speed during next five days may be 2 km/hr.</p> |
|--|--|

Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|---------------------------------|--------------------------------------|---|
| Field Crops | | | |
| * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump. | | | |
| * All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs. | | | |
| Rice | Panicle initiation to flowering | | - After rains, weed out and top dress with remaining urea dose @ 33 Kg/ ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage. |
| | | Sheath rot | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. |
| | | Smut disease of rice | Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage. |
| | | Sheath blight/ Bakani | Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water. |
| | | Borer | Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. |
| | | Case worm, leaf folder, whorl maggot | Lambdacythrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam). |
| | | Gall midge | Thiomethoxam @ 5g/ 15 lit water. |
| | | Bacterial leaf blight | Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam). |
| | | Plant hopper or any sucking insect | Imidachloprid @ 7ml/ 15 litres of water. |
| Soybean | Pod formation | Rust | - Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water. |
| Groundnut | Pegging | Tikka disease Rust | - Earthing up must be done at peg formation stage done after rains. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water. |
| Blackgram / rice bean | Vegetative to flowering | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after rains. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. |
| Horticulture Crops | | | |



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

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|--|-----------------------|--|--|
| Ginger/ Turmeric | Rhizome formation | - Leaf blotch & Leaf Spot - Shoot borer | - After rains, spray <i>Mancozeb</i> @ 2 g/ lit of water at 15 to 10 days interval depending upon the severity of incidence. - Apply <i>Malathion</i> @ 2ml/lit of water or <i>Monocrotophos</i> @ 1 ml/litre of water twice at 7 – 10 days interval. |
| Onion | Nursery | | Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. |
| Brinjal | Flowering to fruiting | Fruit and shoot borer | - Spray <i>Deltamethrin</i> @ 7 ml/ 10 lit of water after rains. |
| Rabi vegetables | Land preparation | | Procure good quality seeds of. Prepare land for sowing or planting carrot, radish, coriander, cauliflower, cabbage, broccoli, etc. after rains. |
| Garden pea/ french bean/ broad bean | Land preparation | | - Sowing of pea/ French bean/ broad bean may be done in upland area after rains. |

Animal Sciences

| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
|-------------------------------------|----------------------------|----------------------|---|
| Poultry/ Duckery | All susceptible age groups | Ectoparasites | - Spray <i>Butox</i> over the flock @ 3ml in 1 lit of water once a week. |
| | | Endoparasite | - Administer <i>Albend</i> @ 30 ml/100 birds in drinking water accompanied with <i>Brotone</i> liquid @ 5-10 ml/ 100 birds. |
| | | <i>Coccidiosis</i> | - Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days. |
| | | Deworming | - <i>Piperazine</i> liquid @ 40ml/ 100 birds in drinking water may be administered. |
| Sheep/ Goat | Above 3 months of age | Deworming | - Administer <i>Banif Bolus</i> orally 2 1 bolus/ 100 kg b. wt. |
| Pig | Above 3 months of age | Helminth parasite | - Administer <i>Albend</i> @ 15 ml orally once for adult. |
| | | <i>Coccidiosis</i> | - Administer <i>Piperazine</i> liquid @ 10ml orally per adult once only. |
| | | Ectoparasites | - Spray <i>Butox</i> @ 2ml in 1 lit of water, twice a week. |
| Cattle / Buffalo/ Mithun | Above 3 months of age | Helminth parasite | - Administer <i>Nilzan-90ml</i> suspension @90ml for 300 kg b. wt. |
| | | Ecto parasite | - Spray <i>Topicure</i> solution, twice a week at fortnightly interval. |
| | | B.Q. and H.S. | - Vaccinate against B.Q. & H.S. |

Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

| Type of Farming | Stage | Management | Agro-metrological advisories |
|------------------------|----------------|------------|---|
| Carp culture | Grow-out | Pond water | Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water. |
| | 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. 20-30 million spawn can be stock in 1 ha pond |
| Paddy cum fish culture | Water | | Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture. |
| Cat fish (Ngakra) | Pond and water | | Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval |
| | Feed | | Feed with high protein content 35-40% CP should be given @ 5-8% body weight. |

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray *Kocide* @5g/15lit water.

Pig: *Coccidiosis*- *Piperazine* liq @10ml

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

24th September, 2013

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 25th to 29th September, 2013 as given below:

| | |
|--|--|
| <p><u>Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd September, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but mainly clear from afternoon hours of 21st to 22nd Sept. No rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 34.0 °C, range of minimum temperature observed was 20.0 – 22.0 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 63.75 % respectively. The average wind speed range was 0.9 – 1.8 km/hr.</p> | <p><u>Weather forecast for next five days of Tamenglong (25th to 29th September, 2013)</u></p> <p>It is likely to rains during next five days. The sky may be partly cloudy on 25th then mainly cloudy to cloudy upto 29th with maximum temp. of 30.0 - 33.0 °C and minimum temp. of 21.0 – 23.0 °C. The maximum RH may attain max of 100 % and minimum RH of 77 %. The average wind speed during next five days may be 0-2 km/hr.</p> |
|--|--|

Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|---------------------------------|--------------------------------------|---|
| Field Crops | | | |
| * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump. | | | |
| * All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs. | | | |
| Rice | Panicle initiation to flowering | | - After rains, weed out and top dress with remaining urea dose @ 33 Kg/ ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage. |
| | | Sheath rot | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. |
| | | Smut disease of rice | Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage. |
| | | Sheath blight/ Bakani | Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water. |
| | | Borer | Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. |
| | | Case worm, leaf folder, whorl maggot | Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam). |
| | | Gall midge | Thiomethoxam @ 5g/ 15 lit water. |
| | | Bacterial leaf blight | Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam). |
| | | Plant hopper or any sucking insect | Imidachloprid @ 7ml/ 15 litres of water. |
| Soybean | Pod formation | Rust | - Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water. |
| Groundnut | Pegging | Tikka disease Rust | - Earthing up must be done at peg formation stage done after rains. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water. |
| Blackgram / rice bean | Vegetative to flowering | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after rains. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. |
| Horticulture Crops | | | |



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



“Integrated Agromet Advisory Services”

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|--|-----------------------|--|--|
| Ginger/ Turmeric | Rhizome formation | - Leaf blotch & Leaf Spot - Shoot borer | - After rains, spray <i>Mancozeb</i> @ 2 g/ lit of water at 15 to 10 days interval depending upon the severity of incidence. - Apply <i>Malathion</i> @ 2ml/lit of water or <i>Monocrotophos</i> @ 1 ml/litre of water twice at 7 – 10 days interval. |
| Onion | Nursery | | Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. |
| Brinjal | Flowering to fruiting | Fruit and shoot borer | - Spray <i>Deltamethrin</i> @ 7 ml/ 10 lit of water after rains. |
| Rabi vegetables | Land preparation | | Procure good quality seeds of. Prepare land for sowing or planting carrot, radish, coriander, cauliflower, cabbage, broccoli, etc. after rains. |
| Garden pea/ french bean/ broad bean | Land preparation | | - Sowing of pea/ French bean/ broad bean may be done in upland area after rains. |

Animal Sciences

| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
|-------------------------------------|----------------------------|----------------------|---|
| Poultry/ Duckery | All susceptible age groups | Ectoparasites | - Spray <i>Butox</i> over the flock @ 3ml in 1 lit of water once a week. |
| | | Endoparasite | - Administer <i>Albend</i> @ 30 ml/100 birds in drinking water accompanied with <i>Brotone</i> liquid @ 5-10 ml/ 100 birds. |
| | | <i>Coccidiosis</i> | - Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days. |
| | | Deworming | - <i>Piperazine</i> liquid @ 40ml/ 100 birds in drinking water may be administered. |
| Sheep/ Goat | Above 3 months of age | Deworming | - Administer <i>Banif Bolus</i> orally 2 1 bolus/ 100 kg b. wt. |
| Pig | Above 3 months of age | Helminth parasite | - Administer <i>Albend</i> @ 15 ml orally once for adult. |
| | | <i>Coccidiosis</i> | - Administer <i>Piperazine</i> liquid @ 10ml orally per adult once only. |
| | | Ectoparasites | - Spray <i>Butox</i> @ 2ml in 1 lit of water, twice a week. |
| Cattle / Buffalo/ Mithun | Above 3 months of age | Helminth parasite | - Administer <i>Nilzan-90ml</i> suspension @90ml for 300 kg b. wt. |
| | | Ecto parasite | - Spray <i>Topicure</i> solution, twice a week at fortnightly interval. |
| | | B.Q. and H.S. | - Vaccinate against B.Q. & H.S. |

Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

| Type of Farming | Stage | Management | Agro-metrological advisories |
|------------------------|----------------|------------|---|
| Carp culture | Grow-out | Pond water | Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water. |
| | 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. 20-30 million spawn can be stock in 1 ha pond |
| Paddy cum fish culture | Water | | Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture. |
| Cat fish (Ngakra) | Pond and water | | Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval |
| | Feed | | Feed with high protein content 35-40% CP should be given @ 5-8% body weight. |

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray *Kocide* @5g/15lit water.

Pig: *Coccidiosis*- *Piperazine* liq @10ml

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

24th September, 2013

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 25th to 29th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd September, 2013)

During the past four days the sky was mainly cloudy to cloudy but mainly clear from afternoon hours of 21st to 22nd Sept. No rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 34.0 °C, range of minimum temperature observed was 20.0 – 22.0 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 63.75 % respectively. The average wind speed range was 0.9 – 1.8 km/hr.

Weather forecast for next five days of Thoubal (25th to 29th September, 2013)

It is likely to rains during next five days. The sky may be partly cloudy on 25th then mainly cloudy to cloudy upto 29th with maximum temp. of 29.0 - 32.0 °C and minimum temp. of 18.0 – 20.0 °C. The maximum RH may attain max of 100 % and minimum RH of 92 %. The average wind speed during next five days may be 2-4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|---------------------------------|--------------------------------------|--|
| Field Crops | | | |
| * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump. | | | |
| * All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs. | | | |
| Rice | Panicle initiation to flowering | | - After rains, weed out and top dress with remaining urea dose @ 33 Kg/ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage. |
| | | Sheath rot | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. |
| | | Smut disease of rice | Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage. |
| | | Sheath blight/ Bakani | Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water. |
| | | Borer | Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. |
| | | Case worm, leaf folder, whorl maggot | Lambdacythrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam). |
| | | Gall midge | Thiomethoxam @ 5g/ 15 lit water. |
| | | Bacterial leaf blight | Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam). |
| | | Plant hopper or any sucking insect | Imidachloprid @ 7ml/ 15 litres of water. |
| Soybean | Pod formation | Rust | - Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water. |
| Groundnut | Pegging | Tikka disease Rust | - Earthing up must be done at peg formation stage done after rains. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water. |
| Blackgram / rice bean | Vegetative to flowering | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after rains. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. |
| Horticulture Crops | | | |



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“Integrated Agromet Advisory Services”

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|--|-----------------------|--|--|
| Ginger/ Turmeric | Rhizome formation | - Leaf blotch & Leaf Spot - Shoot borer | - After rains, spray <i>Mancozeb</i> @ 2 g/ lit of water at 15 to 10 days interval depending upon the severity of incidence. - Apply <i>Malathion</i> @ 2ml/lit of water or <i>Monocrotophos</i> @ 1 ml/litre of water twice at 7 – 10 days interval. |
| Onion | Nursery | | Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. |
| Brinjal | Flowering to fruiting | Fruit and shoot borer | - Spray <i>Deltamethrin</i> @ 7 ml/ 10 lit of water after rains. |
| Rabi vegetables | Land preparation | | Procure good quality seeds of. Prepare land for sowing or planting carrot, radish, coriander, cauliflower, cabbage, broccoli, etc. after rains. |
| Garden pea/ french bean/ broad bean | Land preparation | | - Sowing of pea/ French bean/ broad bean may be done in upland area after rains. |

Animal Sciences

| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
|-------------------------------------|----------------------------|----------------------|---|
| Poultry/ Duckery | All susceptible age groups | Ectoparasites | - Spray <i>Butox</i> over the flock @ 3ml in 1 lit of water once a week. |
| | | Endoparasite | - Administer <i>Albend</i> @ 30 ml/100 birds in drinking water accompanied with <i>Brotone</i> liquid @ 5-10 ml/ 100 birds. |
| | | <i>Coccidiosis</i> | - Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days. |
| | | Deworming | - <i>Piperazine</i> liquid @ 40ml/ 100 birds in drinking water may be administered. |
| Sheep/ Goat | Above 3 months of age | Deworming | - Administer <i>Banif Bolus</i> orally 2 1 bolus/ 100 kg b. wt. |
| Pig | Above 3 months of age | Helminth parasite | - Administer <i>Albend</i> @ 15 ml orally once for adult. |
| | | <i>Coccidiosis</i> | - Administer <i>Piperazine</i> liquid @ 10ml orally per adult once only. |
| | | Ectoparasites | - Spray <i>Butox</i> @ 2ml in 1 lit of water, twice a week. |
| Cattle / Buffalo/ Mithun | Above 3 months of age | Helminth parasite | - Administer <i>Nilzan-90ml</i> suspension @90ml for 300 kg b. wt. |
| | | Ecto parasite | - Spray <i>Topicure</i> solution, twice a week at fortnightly interval. |
| | | B.Q. and H.S. | - Vaccinate against B.Q. & H.S. |

Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

| Type of Farming | Stage | Management | Agro-metrological advisories |
|------------------------|----------------|------------|---|
| Carp culture | Grow-out | Pond water | Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water. |
| | 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. 20-30 million spawn can be stock in 1 ha pond |
| Paddy cum fish culture | Water | | Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture. |
| Cat fish (Ngakra) | Pond and water | | Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval |
| | Feed | | Feed with high protein content 35-40% CP should be given @ 5-8% body weight. |

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray *Kocide* @5g/15lit water.

Pig: *Coccidiosis*- *Piperazine* liq @10ml

I. Meghachandra Singh
Scientist i/c, IAAS



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

24th September, 2013

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 25th to 29th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd September, 2013)

During the past four days the sky was mainly cloudy to cloudy but mainly clear from afternoon hours of 21st to 22nd Sept. No rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 34.0 °C, range of minimum temperature observed was 20.0 – 22.0 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 63.75 % respectively. The average wind speed range was 0.9 – 1.8 km/hr.

Weather forecast for next five days of Ukhrul (25th to 29th September, 2013)

It is likely to rains during next five days. The sky may be partly cloudy on 25th then mainly cloudy to cloudy upto 29th with maximum temp. of 26.0 - 29.0 °C and minimum temp. of 16.0 – 19.0 °C. The maximum RH may attain max of 100 % and minimum RH of 87 %. The average wind speed during next five days may be 2 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|---|---------------------------------|--------------------------------------|---|
| Field Crops | | | |
| * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump. | | | |
| * All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs. | | | |
| Rice | Panicle initiation to flowering | | - After rains, weed out and top dress with remaining urea dose @ 33 Kg/ ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage. |
| | | Sheath rot | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. |
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| Soybean | Pod formation | Rust | - Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water. |
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Fisheries

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