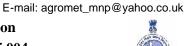
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



"Integrated Agromet Advisory Services"

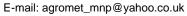
MANIPUR BULLETIN 13th September, 2013

Bishnupur

| the days, ne., nom 11 to 10 september, 2015 as given below. | |
|--|--|
| Significant past weather for the preceding bi-weekly of | Weather forecast for next five days of Bishnupur (14 th to 18 th |
| Imphal - West (10 th to 12 th September, 2013) | September, 2013) |
| | |
| During the past three days the sky was mainly cloudy to | It is likely to have light to moderate rains upto 18 th September. |
| cloudy but partly cloudy during afternoon hours of 12 th | The sky may be partly cloudy to mainly cloudy with maximum |
| September. 103.0 mm rainfall was recorded during past | temp. of $31.0 - 33.0$ °C and minimum temp. of $21.0 - 23.0$ °C. |
| four days. Maximum temperature range observed was 29.4 | The maximum RH may attain max of 100 % and minimum RH |
| - 33.2 °C, range of minimum temperature observed was | of 91s %. The average wind speed during next five days may |
| 20.5 – 21.9 °C, mean relative humidity observed in morning | be 0-2 km/hr. |
| and afternoon were 94.0 % and 73.3 % respectively. The | |
| average wind speed range was $0.7 - 2.3$ km/hr. | |

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|--------------------------------------|--|--|---|
| Field Crops | | | |
| * Sprayers used to combined while | to spray weedicide m | - | hours. aying of insecticides or pesticides. Insecticides and pesticides must not be |
| Rice | Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late sowing) | | Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress. |
| | | Sheath rot Sheath blight/ Bakani | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water. |
| | | Borer Case worm, leaf folder, whorl maggot | Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam). |
| | | Gall midge | Thiomethoxam @ 5g/ 15 lit water. |
| | | Bacterial leaf blight Plant hopper or any sucking insect | Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam). Imidachloprid @ 7ml/ 15 litres of water. |
| Soybean | Flowering to pod formation | Hairy caterpillars Rust | Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Bayleton @ 10g/ 15 ml of water. |
| Groundnut | Pegging | Hairy caterpillars Tikka disease Rust | Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Redomil75% MZ @ 15g/ 15litre water. Bayleton @ 10g/ 15 ml of water. |
| Blackgram / rice bean | Vegetative | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. |







"Integrated Agromet Advisory Services"

| Horticulture Cro | | ail treatment of pursons | had for varatables must be done with Cashandarim @ 2a/15 lit water must |
|--------------------|-----------------------|---|--|
| | | | bed for vegetables must be done with Carbendazim@ 3g/15 lit water must -45/ Thiram/ Captan @ 2g/kg seed. |
| | | | for 30 min before transplanting. |
| Garden pea/ | Land preparation | | - After harvesting of colocasia/ cucurbits, raised beds may be prepared for |
| french bean | | | sowing of pea/ French bean. |
| Tomato (off | fruiting | Fruit & shoot borer | Deltamethrin 12% @ 7ml/15 lit water. |
| season) | 6 | | |
| Fruit plants | Planting | | Select foothills/ hill slope areas preferably facing South East site for |
| (Mango, | U | | plantation of these plants. |
| Litchi, guava) | | | Earth balls with nursery plant should not be disturbed/ broken. |
| and Tree Bean | | | Prepare pits of size 2x2x2 feets. After planting, fill up the pit with soil |
| | | | making small mound to avoid water stagnation in the centre/ collar region |
| Animal Scienc | es | | |
| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| Sheep/ Goat | Above 3 months of age | Deworming | - Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt. |
| Pig | Above 3 months of age | Helminth parasite - A.suum - Oesophagostomum sp. | - Administer Albend @ 15 ml orally once for adult. |
| | | Ectoparasites | - Spray Butox @ 2ml in 1 lit of water, twice a week. |
| Cattle / Buffalo/ | Above 3 months | Helminth parasite | - Administer Nilzan-90ml suspension @90ml for 300 kg b. wt. |
| Mithun | of age | Ecto parasite | - Spray Butox @ 2ml in 1 lit of water, twice a week at fortnightly |
| | | Leto parasite | interval. |
| | | B.Q. and H.S. | - Vaccinate against B.Q. & H.S. |
| Poultry | All susceptible | Ectoparasites | - Spray Butox over the flock @ 3ml in 1 lit of water once a week. |
| 2 0 0000 j | age groups | Endoparasite | - Administer Albend @ 30 ml/100 birds in drinking water accompanied |
| | | Lincopulation | with Brotone liquid @ 5-10 ml/ 100 birds. |
| | | Coccidiosis | - Administer Coximar (@ 1g/lit of drinking water) for 7 days. |
| Fisheries | | | |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp culture | Grow-out | Pond water | If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked. |
| | Nurseries | | Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days |
| Paddy cum | Water | 1 | Water depth of the trenches in paddy field should be maintained at |
| fish culture | | | 1.0m. Rice bran and mustard oil cake (1:1) can be provided as |
| | | | supplementary feed. Avoid insecticide/pesticide on crops. |
| Cat fish | Pond and water | | Water depth should be maintained at 0.5m -0.8m for nurseries |
| (Ngakra) | Feed | | Feed with high protein content 35-40% CP should be given @ 5-8% |
| | | | body weight. |

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 13th September, 2013

Chandel

| Significant past weather for the preceding bi-weekly of | Weather forecast for next five days of Chandel (14 th to 18 th |
|--|--|
| Imphal - West (10 th to 12 th September, 2013) | September, 2013) |
| | |
| During the past three days the sky was mainly cloudy to | It is likely to have light to moderate rains upto 18 th September. |
| cloudy but partly cloudy during afternoon hours of 12 th | The sky may be partly cloudy to mainly cloudy with maximum |
| September. 103.0 mm rainfall was recorded during past | temp. of $32.0 - 33.0$ °C and minimum temp. of $22.0 - 24.0$ °C. |
| four days. Maximum temperature range observed was 29.4 | The maximum RH may attain max of 99 % and minimum RH |
| - 33.2 °C, range of minimum temperature observed was | of 87 %. The average wind speed during next five days may be |
| 20.5 – 21.9 °C, mean relative humidity observed in morning | 2 km/hr. |
| and afternoon were 94.0 % and 73.3 % respectively. The | |
| average wind speed range was $0.7 - 2.3$ km/hr. | |
| | Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th September, 2013) During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 12th September. 103.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 - 33.2 °C, range of minimum temperature observed was 20.5 - 21.9 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 73.3 % respectively. The |

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|--------------------------------------|--|---|---|
| Field Crops | | | |
| * Sprayers used to combined while | to spray weedicide m | - | hours. aying of insecticides or pesticides. Insecticides and pesticides must not be |
| Rice | Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late sowing) | | Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress. |
| | | Sheath rot Sheath blight/ Bakani Borer | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water. Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. |
| | | Case worm, leaf folder, whorl maggot | Lambdacyhothrin @ 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 | Flowering to pod formation | Hairy caterpillars Rust | Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Bayleton @ 10g/ 15 ml of water. |
| Groundnut | Pegging | Hairy caterpillars Tikka disease Rust | Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Redomil75% MZ @ 15g/ 15litre water. Bayleton @ 10g/ 15 ml of water. |
| Blackgram / rice bean | Vegetative | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. |





"Integrated Agromet Advisory Services"

| Horticulture Cro * To prevent dar | | oil treatment of nursery | bed for vegetables must be done with Carbendazim@ 3g/15 lit water must |
|--------------------------------------|------------------------|---|--|
| | | | -45/ Thiram/ Captan @ 2g/kg seed. |
| | | zim @ 10g/ 5 lit water | for 30 min before transplanting. |
| Garden pea/ | Land preparation | | - After harvesting of colocasia/ cucurbits, raised beds may be prepared for |
| french bean | | | sowing of pea/ French bean. |
| Tomato (off season) | fruiting | Fruit & shoot borer | Deltamethrin 12% @ 7ml/15 lit water. |
| Fruit plants | Planting | | Select foothills/ hill slope areas preferably facing South East site for |
| (Mango, | | | plantation of these plants. |
| Litchi, guava) | | | Earth balls with nursery plant should not be disturbed/ broken. |
| and Tree Bean | | | Prepare pits of size $2x^2x^2$ feets. After planting, fill up the pit with soil |
| | | | making small mound to avoid water stagnation in the centre/ collar region |
| Animal Scienc | es | | |
| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| Sheep/ Goat | Above 3 months of age | Deworming | - Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt. |
| Pig | Above 3 months of age | Helminth parasite - A.suum - Oesophagostomum sp. | - Administer Albend @ 15 ml orally once for adult. |
| | | Ectoparasites | - Spray Butox @ 2ml in 1 lit of water, twice a week. |
| Cattle / Buffalo/ | Above 3 months | Helminth parasite | - Administer Nilzan-90ml suspension @90ml for 300 kg b. wt. |
| Mithun | of age | Ecto parasite | - Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval. |
| | | B.Q. and H.S. | - Vaccinate against B.Q. & H.S. |
| Poultry | All susceptible | Ectoparasites | - Spray Butox over the flock @ 3ml in 1 lit of water once a week. |
| 2 00000 | age groups | Endoparasite | - Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds. |
| | | Coccidiosis | - Administer <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days. |
| Fisheries | | Cocciniosis | - Administer Coximur (@ 1g/tit of urinking water) for 7 days. |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp culture | Grow-out | Pond water | If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked. |
| | Nurseries | | Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days |
| 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. Avoid insecticide/pesticide on crops. |
| Cat fish | Pond and water | | Water depth should be maintained at 0.5m -0.8m for nurseries |
| (Ngakra) | Pond and water Feed | | Feed with high protein content 35-40% CP should be given @ 5-8% body weight. |

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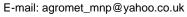
MANIPUR BULLETIN 13th September, 2013

Churachandpur

| | th |
|--|---|
| Significant past weather for the preceding bi-weekly of | Weather forecast for next five days of Churachandpur (14 th to |
| Imphal - West (10 th to 12 th September, 2013) | 18 th September, 2013) |
| | |
| During the past three days the sky was mainly cloudy to | It is likely to have light to moderate rains upto 18 th September. |
| cloudy but partly cloudy during afternoon hours of 12 th | The sky may be partly cloudy to mainly cloudy with maximum |
| September. 103.0 mm rainfall was recorded during past | temp. of 31.0 - 33.0 °C and minimum temp. of $21.0 - 23.0$ °C. |
| four days. Maximum temperature range observed was 29.4 | The maximum RH may attain max of 100 % and minimum RH |
| - 33.2 °C, range of minimum temperature observed was | of 92 %. The average wind speed during next five days may be |
| 20.5 – 21.9 °C, mean relative humidity observed in morning | 0-2 km/hr. |
| and afternoon were 94.0 % and 73.3 % respectively. The | |
| average wind speed range was $0.7 - 2.3$ km/hr. | |

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|--------------------------------------|--|--|---|
| Field Crops | | | |
| * Sprayers used to combined while | to spray weedicide m | - | hours. aying of insecticides or pesticides. Insecticides and pesticides must not be |
| Rice | Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late sowing) | | Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress. |
| | | Sheath rot Sheath blight/ Bakani | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water. |
| | | Borer Case worm, leaf folder, whorl maggot | Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam). |
| | | Gall midge Bacterial leaf blight | Thiomethoxam @ 5g/ 15 lit water. |
| | | Plant hopper or any sucking insect | Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam). Imidachloprid @ 7ml/ 15 litres of water. |
| Soybean | Flowering to pod formation | Hairy caterpillars Rust | Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Bayleton @ 10g/ 15 ml of water. |
| Groundnut | Pegging | Hairy caterpillars Tikka disease Rust | Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Redomil75% MZ @ 15g/ 15litre water. Bayleton @ 10g/ 15 ml of water. |
| Blackgram / rice bean | Vegetative | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. |





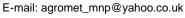


"Integrated Agromet Advisory Services"

| * To prevent dar | | oil treatment of nursery | bed for vegetables must be done with Carbendazim@ 3g/15 lit water must |
|---------------------------|----------------------------|---|--|
| | | | -45/ Thiram/ Captan @ 2g/kg seed. |
| | | | for 30 min before transplanting. |
| Garden pea/ | Land preparation | | - After harvesting of colocasia/ cucurbits, raised beds may be prepared for |
| french bean | | | sowing of pea/ French bean. |
| Tomato (off | fruiting | Fruit & shoot borer | Deltamethrin 12% @ 7ml/15 lit water. |
| season) | | | |
| Fruit plants | Planting | | Select foothills/ hill slope areas preferably facing South East site for |
| (Mango, | | | plantation of these plants. |
| Litchi, guava) | | | Earth balls with nursery plant should not be disturbed/ broken. |
| and Tree Bean | | | Prepare pits of size 2x2x2 feets. After planting, fill up the pit with soil |
| | | | making small mound to avoid water stagnation in the centre/ collar region |
| Animal Scienc | es | | |
| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| Sheep/ Goat | Above 3 months of age | Deworming | - Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt. |
| Pig | Above 3 months of age | Helminth parasite - A.suum - Oesophagostomum sp. | - Administer Albend @ 15 ml orally once for adult. |
| | | Ectoparasites | - Spray Butox @ 2ml in 1 lit of water, twice a week. |
| Cattle / Buffalo/ | Above 3 months | Helminth parasite | - Administer Nilzan-90ml suspension @90ml for 300 kg b. wt. |
| Mithun | of age | Ecto parasite | - Spray Butox @ 2ml in 1 lit of water, twice a week at fortnightly |
| | | Leto paraste | interval. |
| | | B.Q. and H.S. | - Vaccinate against B.Q. & H.S. |
| Poultry | All susceptible age groups | Ectoparasites | - Spray Butox over the flock @ 3ml in 1 lit of water once a week. |
| I outry | | Endoparasite | - Administer Albend @ 30 ml/100 birds in drinking water accompanied |
| | | Endopulusite | with Brotone liquid @ $5-10 \text{ ml}/100 \text{ birds}$. |
| | | Coccidiosis | - Administer <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days. |
| Fisheries | | | |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp culture | Grow-out | Pond water | If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked. |
| | Nurseries | | Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days |
| 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. Avoid insecticide/pesticide on crops. |
| Cat fish | Pond and water | | Water depth should be maintained at 0.5m -0.8m for nurseries |
| (Ngakra) | Feed | | Feed with high protein content 35-40% CP should be given @ 5-8% body weight. |

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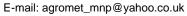
MANIPUR BULLETIN 13th September, 2013

Imphal-East

| ive days, i.e., itom i i to io september, 2015 as given below. | |
|--|---|
| Significant past weather for the preceding bi-weekly of | Weather forecast for next five days of Imphal - East (14 th to |
| Imphal - West (10 th to 12 th September, 2013) | 18 th September, 2013) |
| | 4 |
| During the past three days the sky was mainly cloudy to | It is likely to have light to moderate rains upto 18 th September. |
| cloudy but partly cloudy during afternoon hours of 12 th | The sky may be partly cloudy to mainly cloudy with maximum |
| September. 103.0 mm rainfall was recorded during past | temp. of 31.0 - 33.0 °C and minimum temp. of $22.0 - 23.0$ °C. |
| four days. Maximum temperature range observed was 29.4 | The maximum RH may attain max of 100 % and minimum RH |
| - 33.2 °C, range of minimum temperature observed was | of 92 %. The average wind speed during next five days may be |
| 20.5 - 21.9 °C, mean relative humidity observed in morning | 0-2 km/hr. |
| and afternoon were 94.0 % and 73.3 % respectively. The | |
| average wind speed range was $0.7 - 2.3$ km/hr. | |

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|--------------------------------------|--|---|---|
| Field Crops | | | |
| * Sprayers used to combined while | to spray weedicide m | - | hours. aying of insecticides or pesticides. Insecticides and pesticides must not be |
| Rice | Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late sowing) | | Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress. |
| | | Sheath rot Sheath blight/ Bakani | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water. |
| | | Borer | Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. |
| | | Case worm, leaf folder, whorl maggot | Lambdacyhothrin @ 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 | Flowering to pod formation | Hairy caterpillars Rust | Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Bayleton @ 10g/ 15 ml of water. |
| Groundnut | Pegging | Hairy caterpillars Tikka disease Rust | Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Redomil75% MZ @ 15g/ 15litre water. Bayleton @ 10g/ 15 ml of water. |
| Blackgram / rice bean | Vegetative | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. |





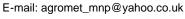


"Integrated Agromet Advisory Services"

| Horticulture Cro | | | |
|---------------------------|-----------------------|---|--|
| | | | bed for vegetables must be done with Carbendazim@ $3g/15$ lit water must $45/7$ Linear (Carten @ $25/15$ and |
| | | | -45/ Thiram/ Captan @ 2g/kg seed. for 30 min before transplanting. |
| Garden pea/ | Land preparation | Izini @ 10g/ 5 ni water | - After harvesting of colocasia/ cucurbits, raised beds may be prepared for |
| french bean | Land preparation | | sowing of pea/ French bean. |
| Tomato (off | fruiting | Fruit & shoot borer | Deltamethrin 12% @ 7ml/15 lit water. |
| season) | nunng | Fruit & shoot borer | Dentametirini 12% @ /mi/15 int water. |
| Fruit plants | Planting | | Select foothills/ hill slope areas preferably facing South East site for |
| (Mango, | C C | | plantation of these plants. |
| Litchi, guava) | | | Earth balls with nursery plant should not be disturbed/ broken. |
| and Tree Bean | | | Prepare pits of size $2x2x^2$ feets. After planting, fill up the pit with soil |
| | | | making small mound to avoid water stagnation in the centre/ collar region |
| Animal Scienc | | | 1 |
| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| Sheep/ Goat | Above 3 months of age | Deworming | - Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt. |
| Pig | Above 3 months of age | Helminth parasite - A.suum - Oesophagostomum sp. | - Administer Albend @ 15 ml orally once for adult. |
| | | Ectoparasites | - Spray Butox @ 2ml in 1 lit of water, twice a week. |
| Cattle / Buffalo/ | Above 3 months of age | Helminth parasite | - Administer Nilzan-90ml suspension @90ml for 300 kg b. wt. |
| Mithun | | Ecto parasite | - Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval. |
| | | B.Q. and H.S. | - Vaccinate against B.Q. & H.S. |
| Poultry | All susceptible | Ectoparasites | - Spray Butox over the flock @ 3ml in 1 lit of water once a week. |
| - | age groups | Endoparasite | - Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds. |
| | | Coccidiosis | - Administer Coximar (@ 1g/lit of drinking water) for 7 days. |
| Fisheries | · | | |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp culture | Grow-out | Pond water | If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked. |
| | Nurseries | | Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days |
| 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 |
| Cat fish | Pond and water | | supplementary feed. Avoid insecticide/pesticide on crops. Water depth should be maintained at 0.5m -0.8m for nurseries |
| (Ngakra) | Feed | | Feed with high protein content 35-40% CP should be given @ 5-8% body weight. |

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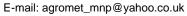
MANIPUR BULLETIN 13th September, 2013

Imphal-West

| Significant past weather for the preceding bi-weekly of Imphal - West (10 th to 12 th September, 2013) | Weather forecast for next five days of Imphal - West (14 th to 18 th September, 2013) |
|--|--|
| During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 12^{th} September. 103.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.2 °C, range of minimum temperature observed was 20.5 – 21.9 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 73.3 % respectively. The average wind speed range was $0.7 - 2.3$ km/hr. | It is likely to have light to moderate rains upto 18^{th} September. The sky may be partly cloudy to mainly cloudy with maximum temp. of $31.0 - 33.0$ °C and minimum temp. of $21.0 - 23.0$ °C. The maximum RH may attain max of 100 % and minimum RH of 86 %. The average wind speed during next five days may be 2-4 km/hr. |

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|--------------------------------------|--|--|---|
| Field Crops | | 1 | · |
| * Sprayers used to combined while | to spray weedicide m | - | hours. aying of insecticides or pesticides. Insecticides and pesticides must not be |
| Rice | Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late sowing) | | Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress. |
| | | Sheath rot Sheath blight/ Bakani | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water. |
| | | Borer Case worm, leaf folder, whorl maggot | Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam). |
| | | Gall midge Bacterial leaf blight Plant hopper or any sucking insect | Thiomethoxam @ 5g/ 15 lit water. Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam). Imidachloprid @ 7ml/ 15 litres of water. |
| Soybean | Flowering to pod formation | Hairy caterpillars Rust | Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Bayleton @ 10g/ 15 ml of water. |
| Groundnut | Pegging | Hairy caterpillars Tikka disease Rust | Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Redomil75% MZ @ 15g/ 15litre water. Bayleton @ 10g/ 15 ml of water. |
| Blackgram / rice bean | Vegetative | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. |





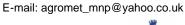


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| Horticulture Cro | | | |
|---------------------------|-----------------------|---|--|
| | | | bed for vegetables must be done with Carbendazim@ $3g/15$ lit water must $45/7$ Linear (Carten @ $25/15$ and |
| | | | -45/ Thiram/ Captan @ 2g/kg seed. for 30 min before transplanting. |
| Garden pea/ | Land preparation | Izini @ 10g/ 5 ni water | - After harvesting of colocasia/ cucurbits, raised beds may be prepared for |
| french bean | Land preparation | | sowing of pea/ French bean. |
| Tomato (off | fruiting | Fruit & shoot borer | Deltamethrin 12% @ 7ml/15 lit water. |
| season) | nunng | Fruit & shoot borer | Dentametirini 12% @ /mi/15 int water. |
| Fruit plants | Planting | | Select foothills/ hill slope areas preferably facing South East site for |
| (Mango, | C C | | plantation of these plants. |
| Litchi, guava) | | | Earth balls with nursery plant should not be disturbed/ broken. |
| and Tree Bean | | | Prepare pits of size $2x2x^2$ feets. After planting, fill up the pit with soil |
| | | | making small mound to avoid water stagnation in the centre/ collar region |
| Animal Scienc | | | 1 |
| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| Sheep/ Goat | Above 3 months of age | Deworming | - Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt. |
| Pig | Above 3 months of age | Helminth parasite - A.suum - Oesophagostomum sp. | - Administer Albend @ 15 ml orally once for adult. |
| | | Ectoparasites | - Spray Butox @ 2ml in 1 lit of water, twice a week. |
| Cattle / Buffalo/ | Above 3 months of age | Helminth parasite | - Administer Nilzan-90ml suspension @90ml for 300 kg b. wt. |
| Mithun | | Ecto parasite | - Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval. |
| | | B.Q. and H.S. | - Vaccinate against B.Q. & H.S. |
| Poultry | All susceptible | Ectoparasites | - Spray Butox over the flock @ 3ml in 1 lit of water once a week. |
| - | age groups | Endoparasite | - Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds. |
| | | Coccidiosis | - Administer Coximar (@ 1g/lit of drinking water) for 7 days. |
| Fisheries | · | | |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp culture | Grow-out | Pond water | If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked. |
| | Nurseries | | Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days |
| 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 |
| Cat fish | Pond and water | | supplementary feed. Avoid insecticide/pesticide on crops. Water depth should be maintained at 0.5m -0.8m for nurseries |
| (Ngakra) | Feed | | Feed with high protein content 35-40% CP should be given @ 5-8% body weight. |

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MANIPUR BULLETIN 13th September, 2013

Senapati

| ive days, i.e., itolii i'i to io september, 2015 as given below. | |
|--|---|
| Significant past weather for the preceding bi-weekly of | Weather forecast for next five days of Senapati (14 th to 18 th |
| Imphal - West (10 th to 12 th September, 2013) | September, 2013) |
| During the past three days the sky was mainly cloudy to | It is likely to have light to moderate rains upto 18 th September. |
| cloudy but partly cloudy during afternoon hours of 12 th | The sky may be partly cloudy to mainly cloudy with maximum |
| | temp. of 28.0 - 31.0 °C and minimum temp. of $21.0 - 23.0$ °C. |
| September. 103.0 mm rainfall was recorded during past | |
| four days. Maximum temperature range observed was 29.4 | The maximum RH may attain max of 100 % and minimum RH |
| - 33.2 °C, range of minimum temperature observed was | of 85 %. The average wind speed during next five days may be |
| 20.5 - 21.9 °C, mean relative humidity observed in morning | 0-2 km/hr. |
| and afternoon were 94.0 % and 73.3 % respectively. The | |
| average wind speed range was $0.7 - 2.3$ km/hr. | |

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|--------------------------|----------------------------------|------------------------------------|---|
| Field Crops | | | |
| - All sprays shou | ld be done when sky | is clear for at least 2-3 | hours. |
| | | ust not be used for spra | aying of insecticides or pesticides. Insecticides and pesticides must not be |
| combined while | | | |
| - Farmers are adv | vised to add stickers | @ 5ml/ pump. | |
| Rice | Panicle initiation to | | - Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 |
| | flowering (for normal sowing) | | days of transplanting. Fertilizer must be applied after proper draining and |
| | Tillering to panicle | | weeding. Water should be maintained at 5cm level upto dough stage. |
| | initiation (for late | | - Weed out at 25-30 days after transplanting. Drain out the water and |
| | sowing) | | apply 33kg of Urea as top dress. |
| | | Sheath rot | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. |
| | | Sheath blight/ | Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit |
| | | Bakani | of water. |
| | | Borer | Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. |
| | | Case worm, leaf | Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per |
| | | folder, whorl maggot | 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 | Flowering to pod | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. |
| | formation | Rust | - Bayleton @ 10g/ 15 ml of water. |
| Groundnut | Pegging | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. |
| | | Tikka disease | - Redomil75% MZ @ 15g/ 15litre water. |
| | | Rust | - Bayleton @ 10g/ 15 ml of water. |
| Blackgram / rice bean | Vegetative | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. |





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| Horticulture Cre | * | | |
|----------------------------|------------------------|---|--|
| | | | bed for vegetables must be done with Carbendazim@ $3g/15$ lit water must |
| | | | -45/ Thiram/ Captan @ 2g/kg seed. |
| | Land preparation | izim @ 10g/ 5 ht water | for 30 min before transplanting. - After harvesting of colocasia/ cucurbits, raised beds may be prepared for |
| Garden pea/ french bean | Land preparation | | sowing of pea/ French bean. |
| Tomato (off season) | fruiting | Fruit & shoot borer | Deltamethrin 12% @ 7ml/15 lit water. |
| Fruit plants | Planting | | Select foothills/ hill slope areas preferably facing South East site for |
| (Mango, | 1 minung | | plantation of these plants. |
| Litchi, guava) | | | Earth balls with nursery plant should not be disturbed/ broken. |
| and Tree Bean | | | Prepare pits of size 2x2x2 feets. After planting, fill up the pit with soil |
| | | | making small mound to avoid water stagnation in the centre/ collar region |
| Animal Scienc | es | | |
| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| Sheep/ Goat | Above 3 months of age | Deworming | - Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt. |
| | Above 3 months of age | Helminth parasite - A.suum - Oesophagostomum sp. | - Administer Albend @ 15 ml orally once for adult. |
| | | Ectoparasites | - Spray Butox @ 2ml in 1 lit of water, twice a week. |
| Cattle / Buffalo/ | Above 3 months | Helminth parasite | - Administer Nilzan-90ml suspension @90ml for 300 kg b. wt. |
| Mithun | of age | Ecto parasite | - Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval. |
| | | B.Q. and H.S. | - Vaccinate against B.Q. & H.S. |
| Poultry | All susceptible | Ectoparasites | - Spray Butox over the flock @ 3ml in 1 lit of water once a week. |
| U U | age groups | Endoparasite | - Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds. |
| | | Coccidiosis | - Administer <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days. |
| Fisheries | I | | |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp culture | Grow-out | Pond water | If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked. |
| | Nurseries | | Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days |
| 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 |
| Cat fish | Dond and water | | supplementary feed. Avoid insecticide/pesticide on crops. |
| Cat fish (Ngakra) | Pond and water Feed | | Water depth should be maintained at 0.5m -0.8m for nurseries Feed with high protein content 35-40% CP should be given @ 5-8% body weight. |

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 13th September, 2013

Thoubal

| tive days, i.e., from 14 to 10 September, 2015 as given below. | |
|--|--|
| Significant past weather for the preceding bi-weekly of | Weather forecast for next five days of Thoubal (14 th to 18 th |
| Imphal - West (10 th to 12 th September, 2013) | September, 2013) |
| | |
| During the past three days the sky was mainly cloudy to | It is likely to have light to moderate rains upto 18 th September. |
| cloudy but partly cloudy during afternoon hours of 12 th | The sky may be partly cloudy to mainly cloudy with maximum |
| September. 103.0 mm rainfall was recorded during past | temp. of 32.0 - 33.0 °C and minimum temp. of $22.0 - 24.0$ °C. |
| four days. Maximum temperature range observed was 29.4 | The maximum RH may attain max of 100 % and minimum RH |
| – 33.2 °C, range of minimum temperature observed was | of 91 %. The average wind speed during next five days may be |
| 20.5 - 21.9 °C, mean relative humidity observed in morning | 0-2 km/hr. |
| and afternoon were 94.0 % and 73.3 % respectively. The | |
| average wind speed range was $0.7 - 2.3$ km/hr. | |

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|--------------------------|---|--------------------------------------|---|
| Field Crops | | | |
| | | is clear for at least 2-3 | |
| | | ust not be used for spra | aying of insecticides or pesticides. Insecticides and pesticides must not be |
| combined while | | ~ ~ ~ | |
| | vised to add stickers | @ 5ml/ pump. | |
| Rice | Panicle initiation to flowering (for normal sowing) | | - Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. |
| | Tillering to panicle initiation (for late sowing) | | - Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress. |
| | | Sheath rot | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. |
| | | Sheath blight/ | Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit |
| | | Bakani | of water. |
| | | Borer | Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. |
| | | Case worm, leaf folder, whorl maggot | Lambdacyhothrin @ 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 | Flowering to pod | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. |
| · | formation | Rust | - Bayleton @ 10g/ 15 ml of water. |
| Groundnut | Pegging | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. |
| | | Tikka disease | - Redomil75% MZ @ 15g/ 15litre water. |
| | | Rust | - Bayleton @ 10g/ 15 ml of water. |
| Blackgram / rice bean | Vegetative | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. |



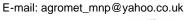


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| Horticulture Cro * To prevent dar | | oil treatment of nursery | bed for vegetables must be done with Carbendazim@ 3g/15 lit water must |
|--------------------------------------|-----------------------|--------------------------|--|
| be done. Also se | ed treatment may be | done using Dithane M | -45/ Thiram/ Captan @ 2g/kg seed. |
| | | zim @ 10g/ 5 lit water | for 30 min before transplanting. |
| Garden pea/ | Land preparation | | - After harvesting of colocasia/ cucurbits, raised beds may be prepared for |
| french bean | | | sowing of pea/ French bean. |
| Tomato (off season) | fruiting | Fruit & shoot borer | Deltamethrin 12% @ 7ml/15 lit water. |
| Fruit plants | Planting | | Select footbills/ hill slope groes proferably fooing South East site for |
| (Mango, | Thanting | | Select foothills/ hill slope areas preferably facing South East site for plantation of these plants. |
| Litchi, guava) | | | Earth balls with nursery plant should not be disturbed/ broken. |
| and Tree Bean | | | Prepare pits of size 2x2x2 feets. After planting, fill up the pit with soil |
| and free Dean | | | making small mound to avoid water stagnation in the centre/ collar region |
| Animal Scienc | 05 | | making small mound to avoid water stagnation in the centre/ conar region |
| Name of the | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| animal | Growth stage | Disease/ miestation | Agro-meteorological advisories |
| Sheep/ Goat | Above 3 months of age | Deworming | - Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt. |
| Pig | Above 3 months | Helminth parasite | - Administer Albend @ 15 ml orally once for adult. |
| | of age | - A.suum | |
| | | - Oesophagostomum | |
| | | sp. | |
| | A1 2 1 | Ectoparasites | - Spray Butox @ 2ml in 1 lit of water, twice a week. |
| Cattle / Buffalo/ Mithun | Above 3 months of age | Helminth parasite | - Administer Nilzan-90ml suspension @90ml for 300 kg b. wt. |
| Withiun | | Ecto parasite | - Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval. |
| | | B.Q. and H.S. | - Vaccinate against B.Q. & H.S. |
| Poultry | All susceptible | Ectoparasites | - Spray Butox over the flock @ 3ml in 1 lit of water once a week. |
| | age groups | Endoparasite | - Administer Albend @ 30 ml/100 birds in drinking water accompanied |
| | | | with Brotone liquid @ 5-10 ml/ 100 birds. |
| | | Coccidiosis | - Administer Coximar (@ 1g/lit of drinking water) for 7 days. |
| Fisheries | | | |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp culture | Grow-out | Pond water | If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerling the stocked |
| | Nurseries | | fingerlings/ha can be stocked. Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds |
| | inuiseries | | should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 |
| | | | million spawn can be stock in 1 ha pond for 15 days |
| Paddy cum | Water | | Water depth of the trenches in paddy field should be maintained at |
| fish culture | ** att | | 1.0m. Rice bran and mustard oil cake (1:1) can be provided as |
| nsh culture | | | |
| Cat fish | Dond and water | | supplementary feed. Avoid insecticide/pesticide on crops. |
| | Pond and water | | Water depth should be maintained at 0.5m -0.8m for nurseries |
| (Ngakra) | Feed | | Feed with high protein content 35-40% CP should be given @ 5-8% |
| | | | body weight. |

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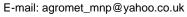
MANIPUR BULLETIN 13th September, 2013

Ukhrul

| tive days, i.e., from 14 to 10 September, 2015 as given below. | |
|--|---|
| Significant past weather for the preceding bi-weekly of | Weather forecast for next five days of Ukhrul (14 th to 18 th |
| Imphal - West (10 th to 12 th September, 2013) | September, 2013) |
| | |
| During the past three days the sky was mainly cloudy to | It is likely to have light to moderate rains upto 18 th September. |
| cloudy but partly cloudy during afternoon hours of 12 th | The sky may be partly cloudy to mainly cloudy with maximum |
| September. 103.0 mm rainfall was recorded during past | temp. of 26.0 - 29.0 $^{\circ}$ C and minimum temp. of 18.0 – 20.0 $^{\circ}$ C. |
| four days. Maximum temperature range observed was 29.4 | The maximum RH may attain max of 99 % and minimum RH |
| – 33.2 °C, range of minimum temperature observed was | of 82 %. The average wind speed during next five days may be |
| 20.5 - 21.9 °C, mean relative humidity observed in morning | 2 km/hr. |
| and afternoon were 94.0 % and 73.3 % respectively. The | |
| average wind speed range was $0.7 - 2.3$ km/hr. | |

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|--------------------------|---|--------------------------------------|---|
| Field Crops | | | |
| - All sprays shou | ld be done when sky | is clear for at least 2-3 | hours. |
| | | ust not be used for spra | aying of insecticides or pesticides. Insecticides and pesticides must not be |
| combined while | | | |
| - Farmers are adv | vised to add stickers | @ 5ml/ pump. | |
| Rice | Panicle initiation to flowering (for normal sowing) | | - Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. |
| | Tillering to panicle initiation (for late sowing) | | - Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress. |
| | | Sheath rot | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. |
| | | Sheath blight/ | Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit |
| | | Bakani | of water. |
| | | Borer | Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. |
| | | Case worm, leaf folder, whorl maggot | Lambdacyhothrin @ 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 | Flowering to pod | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. |
| - | formation | Rust | - Bayleton @ 10g/ 15 ml of water. |
| Groundnut | Pegging | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. |
| | | Tikka disease | - Redomil75% MZ @ 15g/ 15litre water. |
| | | Rust | - Bayleton @ 10g/ 15 ml of water. |
| Blackgram / rice bean | Vegetative | Hairy caterpillars | - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. |
| Storage | | | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. |





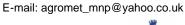


"Integrated Agromet Advisory Services"

| Horticulture Cro | | ·1 | |
|---------------------------|-----------------------|---|--|
| | | | bed for vegetables must be done with Carbendazim@ 3g/15 lit water must 45/ Thiram/ Captan @ 2g/kg seed. |
| | | | for 30 min before transplanting. |
| Garden pea/ | Land preparation | | - After harvesting of colocasia/ cucurbits, raised beds may be prepared for |
| french bean | Lune proparation | | sowing of pea/ French bean. |
| Tomato (off | fruiting | Fruit & shoot borer | Deltamethrin 12% @ 7ml/15 lit water. |
| season) | | | |
| Fruit plants | Planting | | Select foothills/ hill slope areas preferably facing South East site for |
| (Mango, | C C | | plantation of these plants. |
| Litchi, guava) | | | Earth balls with nursery plant should not be disturbed/ broken. |
| and Tree Bean | | | Prepare pits of size $2x^2x^2$ feets. After planting, fill up the pit with soil |
| | | | making small mound to avoid water stagnation in the centre/ collar region. |
| Animal Scienc | es | | |
| Name of the animal | Growth stage | Disease/ infestation | Agro-meteorological advisories |
| Sheep/ Goat | Above 3 months of age | Deworming | - Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt. |
| Pig | Above 3 months of age | Helminth parasite - A.suum - Oesophagostomum sp. | - Administer Albend @ 15 ml orally once for adult. |
| | | Ectoparasites | - Spray Butox @ 2ml in 1 lit of water, twice a week. |
| Cattle / Buffalo/ | Above 3 months | Helminth parasite | - Administer Nilzan-90ml suspension @90ml for 300 kg b. wt. |
| Mithun | of age | Ecto parasite | - Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval. |
| | | B.Q. and H.S. | - Vaccinate against B.Q. & H.S. |
| Poultry | All susceptible | Ectoparasites | - Spray Butox over the flock @ 3ml in 1 lit of water once a week. |
| | age groups | Endoparasite | - Administer Albend @ 30 ml/100 birds in drinking water accompanied |
| | -0-0F | 1 | with Brotone liquid @ 5-10 ml/ 100 birds. |
| | | Coccidiosis | - Administer Coximar (@ 1g/lit of drinking water) for 7 days. |
| Fisheries | | | |
| Type of Farming | Stage | Management | Agro-metrological advisories |
| Carp culture | Grow-out | Pond water | If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked. |
| | Nurseries | | Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days |
| 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 |
| Q . C 1 | | | supplementary feed. Avoid insecticide/pesticide on crops. |
| Cat fish | Pond and water | | Water depth should be maintained at 0.5m -0.8m for nurseries |
| (Ngakra) | Feed | | Feed with high protein content 35-40% CP should be given @ 5-8% body weight. |

Highlen ICAR

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





"Integrated Agromet Advisory Services"

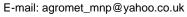
MANIPUR BULLETIN 13th September, 2013

Tamenglong

| Significant past weather for the preceding bi-weekly of Imphal - West (10 th to 12 th September, 2013) | Weather forecast for next five days of Tamenglong (14 th to 18 th September, 2013) |
|--|--|
| During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 12^{th} September. 103.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.2 °C, range of minimum temperature observed was 20.5 – 21.9 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 73.3 % respectively. The average wind speed range was $0.7 - 2.3$ km/hr. | It is likely to have light to moderate rains upto 18^{th} September. The sky may be partly cloudy to mainly cloudy with maximum temp. of 32.0 - 35.0 °C and minimum temp. of 22.0 - 25.0 °C. The maximum RH may attain max of 100 % and minimum RH of 88 %. The average wind speed during next five days may be 0-2 km/hr. |

| Name of the crop | Stage | Pest and disease infestation | Agro-meteorological advisories |
|--------------------------------------|--|--|---|
| Field Crops | | | |
| * Sprayers used to combined while | to spray weedicide m | - | hours. aying of insecticides or pesticides. Insecticides and pesticides must not be |
| Rice | Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late sowing) | | Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress. |
| | | Sheath rot Sheath blight/ Bakani | Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water. |
| | | Borer Case worm, leaf folder, whorl maggot | Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. Lambdacyhothrin @ 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 | Flowering to pod formation | Hairy caterpillars Rust | Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Bayleton @ 10g/ 15 ml of water. |
| Groundnut | Pegging | Hairy caterpillars Tikka disease Rust | Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Redomil75% MZ @ 15g/ 15litre water. Bayleton @ 10g/ 15 ml of water. |
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