

Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN

2nd May, 2017

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 3rd to 7th May, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th April to 1st May, 2017)

Observed mainly clear sky during past four days except during morning hours of 28^{th} with partly cloudy sky and 11.7~mm rainfall was recorded. Maximum temperature range of 28.9 to $30.5~^{\circ}$ C and minimum temperature range of 17.0 to $18.9~^{\circ}$ C with mean relative humidity 82.25~% max and 50.5~% min was recorded in the past four days. The average wind speed was observed to be 4.4-5.1~km/hr.

Weather forecast for next five days of Ukhrul $(3^{rd} \text{ to } 7^{th} \text{ May, } 2017)$

Likely to have thunderstorm with squall very likely at isolated places on $3^{\rm rd}$ May with partly cloudy to mainly cloudy sky and maximum temp. $30-31\,^{\rm o}$ C & minimum temp. 19 - $21\,^{\rm o}$ C. Relative humidity may reach up to 94 % (max RH) & 34 % (min RH). The average wind speed may be 2-4 km/hr.

| Field Crops | | | |
|-------------------------------------|--|-----------------------|---|
| * Harvest rain water. Pr | | | |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Rice | Tillering (Pre-kharif rice) | | - Hand weeding may be done. Drain out excess water and top dress with Urea @33kg / ha and MOP @22kg/ ha. Irrigate again after 48 hours of fertilizer application after heavy rains. - After rains, Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes. |
| | Land preparation to nursery (Main kharif rice) | | - Prepare main plots for ploughing. - Raise community nursery in upland area/ terrace so that it may be least affected with the heavy rains. |
| Soybean/ Groundnut/ Blackgram | Land preparation | | - Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing. |
| Rabi maize | Cob maturity to harvesting | | - Avoid water logging by constructing proper drainage system. |
| Kharif Maize | Sowing | | Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm. |
| Blackgram & Rice bean | Land preparation | | - After this wet spell, land preparation may be done for sowing. It should be made weed free before sowing. |
| Seeds storage | Post harvest management | | For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% in <i>godowns</i>. |
| Horticulture Crops | • | - | · |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| French Bean | Vegetative | | - Provisions may be made to construct proper drainage system to avoid water logging. |
| Ginger & turmeric | Planting to early vegetative | | - Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row). - Provide proper drainage to avoid water logging in crop. |
| Cucurbits | Vegetative | Red Pumpkin Beetle | Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap: - Cut the ½ litre empty mineral water bottle into two halves. - Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half, cover the solution with the upper half of the bottle in inverted position so that a funnel like structure is made and beetles are lured. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre |
| | | | of water. |
| Bhindi | Vegetative | | - Construct proper drainage system to avoid water logging. |
| Tomato/ Brinjal | Vegetative | | After rains apply 38kg Urea+ 125kg SSP+ 24kg MOP per sangam as basal dose and 25kg Urea after 25-30days after tansplanting. Construct proper drainage system to avoid water logging. |



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| | | | Mite | - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water. |
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| Chilli/ capsicum | | Vegetative | | In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. - Construct proper drainage system to avoid water logging. |
| Animal Sciences | | | | |
| | | ng water for birds | | |
| Name of bird/ anim | mal | Stage | Disease and Management | Agro-meteorological advisories |
| Poultry (Chicken | 1/ | All age groups | Fowl Pox | Vaccinate against fowl pox. |
| Turkey/ Duck) | | | Deworming | Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks. |
| | | All age groups | Vaccination | - Vaccinate against Enterotoxaemia and sheep pox. |
| Sheep/ Goat | | excepts the young | Management | - Pregnant animal (more than 6 months) should be given additional feed. |
| oncep/ doar | | ones | Mineral feeding to protect (PICA) | - Mineral mixtures are to be supplemented. |
| | | | Deworming | New born but not yet been dewormed should be given deworming agent. |
| | | | De-worming | ➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt. |
| | | All age groups | Swine Fever | - SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months. |
| Pig | | except the young | FMD | - Vaccinate against FMD after the age of 3 months. |
| | | ones | Mineral feeding | Provide mineral mixture. |
| | | | Care and | Provide clean water (drinking). |
| | | | management | Add antibiotics in feed and water. |
| | | | Mitas infastation | Vaccinate against FMD. |
| | | | Mites infestation Fodder cultivation | Spray with Skin Heal Spray in sufficient quantity. Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days. |
| Cattle | | All age groups | Ectoparasites | - Butox@ 2ml/lit of water at forth nightly interval. |
| Cattle | | excepts the young | Mastitis | Animals should be milked completely. |
| | | ones | Management | - Some female animals may get agitated due to the heat especially during night |
| | | | Management | time, protect and take care of it. |
| Fishery | | | | time, protect and take care of it. |
| Type of Farming | Sta | nge | management | Agro-metrological advisories |
| Carp culture | nur | rseries | Pond and water | Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. |
| | | - | Feed | Well balanced feeds should be provided 2-3 times a day @ 5-10% body |
| | | <u> </u> | Fish | weight/day 20-30 million spawn can be stock in 1 ha pond. |
| Gre | | | Pond and water | Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should |
| | | ow -out | Pond and water | be done. |
| | | - | Fish | 8000-10,000 fingerlings can be stocked per ha. |
| | | | | Sampling of fish for growth, diseases (if any) should be done by regular netting. |
| | | | Feed | As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds. |
| Paddy cum fish culture | Fie | ld | | Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish |
| fish culture | | | culture. | |

SMS:

Lakliba Sagolshel faoba nungsit akanbaga loinana nong taba yai. Phou, leibak hawai, nunghawai, sagolhawai amadi chak-hawai thabinaba maru afaba lousanbiba yarani. Shing/ yaingang thabiba yarani. Oak ta til leitanaba masagi arumba kg khudingda 7.5mg Albendazole pibiyu.



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Imphal East

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Significant past weather for the preceding bi-weekly of Imphal - West (28th April to 1st May, 2017)

Observed mainly clear sky during past four days except during morning hours of 28^{th} with partly cloudy sky and 11.7~mm rainfall was recorded. Maximum temperature range of 28.9 to $30.5\,^{\circ}$ C and minimum temperature range of 17.0 to $18.9\,^{\circ}$ C with mean relative humidity $82.25\,$ % max and $50.5\,$ % min was recorded in the past four days. The average wind speed was observed to be 4.4-5.1~km/hr.

Weather forecast for next five days of Imphal East (3rd to 7th May, 2017)

Likely to have thunderstorm with squall very likely at isolated places on $3^{\rm rd}$ May with partly cloudy to mainly cloudy sky and maximum temp. 30 – $32\,^{\circ}$ C & minimum temp. 20 - $22\,^{\circ}$ C. Relative humidity may reach up to $99\,$ % (max RH) & $36\,$ % (min RH). The average wind speed may be 0-4 km/hr.

| Field Crops | | | |
|-------------------------------------|--|-----------------------|---|
| * Harvest rain water. Pr | | | |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Rice | Tillering (Pre-kharif rice) | | - Hand weeding may be done. Drain out excess water and top dress with Urea @33kg / ha and MOP @22kg/ ha. Irrigate again after 48 hours of fertilizer application after heavy rains. - After rains, Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes. |
| | Land preparation to nursery (Main kharif rice) | | - Prepare main plots for ploughing. - Raise community nursery in upland area/ terrace so that it may be least affected with the heavy rains. |
| Soybean/ Groundnut/ Blackgram | Land preparation | | - Apply 10 - 15 t/ha or 2.5 - 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing. |
| Rabi maize | Cob maturity to harvesting | | - Avoid water logging by constructing proper drainage system. |
| Kharif Maize | Sowing | | Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm. |
| Blackgram & Rice bean | Land preparation | | - After this wet spell, land preparation may be done for sowing. It should be made weed free before sowing. |
| Seeds storage | Post harvest management | | For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% in <i>godowns</i>. |
| Horticulture Crops | | | - |
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|-------------------------------------|--|-----------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Rice | Tillering (Pre-kharif rice) | | - Hand weeding may be done. Drain out excess water and top dress with Urea @33kg / ha and MOP @22kg/ ha. Irrigate again after 48 hours of fertilizer application after heavy rains. - After rains, Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes. |
| | Land preparation to nursery (Main kharif rice) | | Prepare main plots for ploughing. Raise community nursery in upland area/ terrace so that it may be least affected with the heavy rains. |
| Soybean/ Groundnut/ Blackgram | Land preparation | | - Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing. |
| Rabi maize | Cob maturity to harvesting | | - Avoid water logging by constructing proper drainage system. |
| Kharif Maize | Sowing | | Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm. |
| Blackgram & Rice bean | Land preparation | | - After this wet spell, land preparation may be done for sowing. It should be made weed free before sowing. |
| Seeds storage | Post harvest management | | For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% in <i>godowns</i>. |
| Horticulture Crops | | | |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| French Bean | Vegetative | | - Provisions may be made to construct proper drainage system to avoid water logging. |
| Ginger & turmeric | Planting to early vegetative | | Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row). Provide proper drainage to avoid water logging in crop. |
| Cucurbits | Vegetative | Red Pumpkin Beetle | Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap: - Cut the ½ litre empty mineral water bottle into two halves. - Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half, cover the solution with the upper half of the bottle in inverted position so that a funnel like structure is made and beetles are lured. |
| | | Mite | - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water. |
| Bhindi | Vegetative | | - Construct proper drainage system to avoid water logging. |
| Tomato/ Brinjal | Vegetative | | After rains apply 38kg Urea+ 125kg SSP+ 24kg MOP per sangam as basal dose and 25kg Urea after 25-30days after tansplanting. Construct proper drainage system to avoid water logging. |



Manipur Centre, Lamphelpat, Imphal - 795 004





| | | | Mite | - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water. |
|---------------------------|-------|---------------------------------|-----------------------------------|--|
| Chilli/ capsicum | n | Vegetative | | In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. |
| Animal Science | | | | - Construct proper drainage system to avoid water logging. |
| * Provide clean d | | a watan fan hinda | and animals | |
| Name of bird/ ani | | Stage | Disease and Management | Agro-meteorological advisories |
| Poultry (Chicken | 1/ | All age groups | Fowl Pox | Vaccinate against fowl pox. |
| Turkey/ Duck) | | | Deworming | Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks. |
| | | All age groups | Vaccination | - Vaccinate against Enterotoxaemia and sheep pox. |
| Choon/Coot | | excepts the young | Management | - Pregnant animal (more than 6 months) should be given additional feed. |
| Sheep/ Goat | | ones | Mineral feeding to protect (PICA) | - Mineral mixtures are to be supplemented. |
| | | | Deworming | New born but not yet been dewormed should be given deworming agent. |
| | | | De-worming | De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt. |
| Dia | | All age groups except the young | Swine Fever FMD | - SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months Vaccinate against FMD after the age of 3 months. |
| Pig | | ones | Mineral feeding | Provide mineral mixture. |
| | | | Care and management | Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD. |
| | | | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | | Fodder cultivation | Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days. |
| Cattle | | All age groups | Ectoparacites | - Butox@ 2ml/lit of water at forth nightly interval. |
| | | excepts the young | Mastitis | Animals should be milked completely. |
| | | ones | Management | - Some female animals may get agitated due to the heat especially during night time, protect and take care of it. |
| Fishery | | | | |
| Type of Farming | Stag | ge | management | Agro-metrological advisories |
| Carp culture | nurse | eries | Pond and water | Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. |
| | | | Feed | Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day |
| | | | Fish | 20-30 million spawn can be stock in 1 ha pond. |
| | Grov | | Pond and water | Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. |
| | | | Fish | 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. |
| | | | Feed | As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds. |
| Paddy cum fish culture | Field | | | Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture. |

SMS:

Lakliba Sagolshel faoba nungsit akanbaga loinana nong taba yai. Phou, leibak hawai, nunghawai, sagolhawai amadi chak-hawai thabinaba maru afaba lousanbiba yarani. Shing/ yaingang thabiba yarani. Oak ta til leitanaba masagi arumba kg khudingda 7.5mg Albendazole pibiyu.



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MANIPUR BULLETIN

2nd May, 2017

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 3rd to 7th May, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th April to 1st May, 2017)

Observed mainly clear sky during past four days except during morning hours of 28^{th} with partly cloudy sky and 11.7~mm rainfall was recorded. Maximum temperature range of 28.9 to $30.5\,^{\circ}$ C and minimum temperature range of 17.0 to $18.9\,^{\circ}$ C with mean relative humidity $82.25\,$ % max and $50.5\,$ % min was recorded in the past four days. The average wind speed was observed to be 4.4-5.1~km/hr.

Weather forecast for next five days of Chandel (3rd to 7th May, 2017)

Likely to have thunderstorm with squall very likely at isolated places on 3^{rd} May with partly cloudy to mainly cloudy sky and maximum temp. 30 – $31\,^{\circ}$ C & minimum temp. 20 - $21\,^{\circ}$ C. Relative humidity may reach up to 94 % (max RH) & 31 % (min RH). The average wind speed may be 2-5 km/hr.

| * Harvest rain water. Pr | ovide proper drainage | e system to avoid water | logging. |
|-------------------------------------|--|-------------------------|---|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Rice | Tillering (Pre-kharif rice) | | - Hand weeding may be done. Drain out excess water and top dress with Urea @33kg / ha and MOP @22kg/ ha. Irrigate again after 48 hours of fertilizer application after heavy rains. - After rains, Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes. |
| | Land preparation to nursery (Main kharif rice) | | - Prepare main plots for ploughing. - Raise community nursery in upland area/ terrace so that it may be least affected with the heavy rains. |
| Soybean/ Groundnut/ Blackgram | Land preparation | | - Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing. |
| Rabi maize | Cob maturity to harvesting | | - Avoid water logging by constructing proper drainage system. |
| Kharif Maize | Sowing | | Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm. |
| Blackgram & Rice bean | Land preparation | | - After this wet spell, land preparation may be done for sowing. It should be made weed free before sowing. |
| Seeds storage | Post harvest management | | For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after prope drying of seeds along with charcoal at 80:20. Check for moisture content o weight of seeds. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% in <i>godowns</i>. |
| Horticulture Crops | | | Thanking 170 in gowo 1710. |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| French Bean | Vegetative | | - Provisions may be made to construct proper drainage system to avoid water logging. |
| Ginger & turmeric | Planting to early vegetative | | Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row and turmeric (25cm plant to plant and 40-45cm row to row). Provide proper drainage to avoid water logging in crop. |
| Cucurbits | Vegetative | Red Pumpkin Beetle | Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap: - Cut the ½ litre empty mineral water bottle into two halves. - Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half, cove the solution with the upper half of the bottle in inverted position so that a funnel like structure is made and beetles are lured. |
| | | Mite | - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litro of water. |
| Bhindi | Vegetative | | - Construct proper drainage system to avoid water logging. |
| Tomato/ Brinjal | Vegetative | | After rains apply 38kg Urea+ 125kg SSP+ 24kg MOP per sangam as basal dose and 25kg Urea after 25-30days after tansplanting. Construct proper drainage system to avoid water logging. |



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| | | | Mite | - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water. |
|---------------------------|-----------------------------|--------------------|-----------------------------------|---|
| Chilli/ capsicur | Chilli/ capsicum Vegetative | | | In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. - Construct proper drainage system to avoid water logging. |
| Animal Science | ?S | | | Construct proper trainings of stem to avoid water rogging. |
| | | ng water for birds | and animals. | |
| Name of bird/ ani | | Stage | Disease and Management | Agro-meteorological advisories |
| Poultry (Chicker | 1/ | All age groups | Fowl Pox | Vaccinate against fowl pox. |
| Turkey/ Duck) | | | Deworming | ➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks. |
| | | All age groups | Vaccination | - Vaccinate against Enterotoxaemia and sheep pox. |
| Sheep/ Goat | | excepts the young | Management | - Pregnant animal (more than 6 months) should be given additional feed. |
| Sheep/ Goat | | ones | Mineral feeding to protect (PICA) | - Mineral mixtures are to be supplemented. |
| | | | Deworming | New born but not yet been dewormed should be given deworming agent. |
| | | | De-worming | De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt. |
| | | All age groups | Swine Fever | - SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months. |
| Pig | | except the young | FMD Mineral feeding | - Vaccinate against FMD after the age of 3 months. ➤ Provide mineral mixture. |
| | | ones | | |
| | | | Care and management | Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD. |
| | | | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | | Fodder cultivation | Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days. |
| Cattle | | All age groups | Estoporositos | - Butox@ 2ml/lit of water at forth nightly interval. |
| | | excepts the young | Mastitis | Animals should be milked completely. |
| | | ones | Management | - Some female animals may get agitated due to the heat especially during night time, protect and take care of it. |
| Fishery | | 1 | , | |
| Type of Farming | Sta | ige | management | Agro-metrological advisories |
| Carp culture | nur | rseries | Pond and water | Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. |
| | | | Feed | Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day |
| | | | Fish | 20-30 million spawn can be stock in 1 ha pond. |
| | | | Pond and water | Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. |
| | | | Fish | 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. |
| | | | Feed | As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds. |
| Paddy cum fish culture | Field | | | Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture. |
| | | | | - arter - |

SMS:

Lakliba Sagolshel faoba nungsit akanbaga loinana nong taba yai. Phou, leibak hawai, nunghawai, sagolhawai amadi chak-hawai thabinaba maru afaba lousanbiba yarani. Shing/ yaingang thabiba yarani. Oak ta til leitanaba masagi arumba kg khudingda 7.5mg Albendazole pibiyu.



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN

2nd May, 2017

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 3rd to 7th May, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(28^{th}$ April to 1^{st} May, 2017)

Observed mainly clear sky during past four days except during morning hours of 28^{th} with partly cloudy sky and **11.7 mm** rainfall was recorded. Maximum temperature range of 28.9 to 30.5 ° C and minimum temperature range of 17.0 to 18.9 °C with mean relative humidity 82.25% max and 50.5% min was recorded in the past four days. The average wind speed was observed to be 4.4-5.1 km/hr.

Weather forecast for next five days of Churachandpur (3rd to 7th May, 2017)

Likely to have thunderstorm with squall very likely at isolated places on $3^{\rm rd}$ May with partly cloudy to mainly cloudy sky and maximum temp. $30-31^{\circ}$ C & minimum temp. 21° C. Relative humidity may reach up to 96% (max RH) & 43% (min RH). The average wind speed may be 2-5 km/hr.

| Field Crops | ., , , , | | , . |
|------------------------------|--------------------|------------------|---|
| * Harvest rain water. Pr | | | |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories - Hand weeding may be done. Drain out excess water and top dress with Urea |
| | Tillering | | @33kg / ha and MOP @22kg/ ha. Irrigate again after 48 hours of fertilizer |
| | (Pre-kharif rice) | | application after heavy rains. |
| | (Fie-kilaili lice) | | - After rains, Application of 30kg Carbofuran (3G)/ ha with first top dressing of |
| Rice | | | fertilizer to protect crop from insect pest and nematodes. |
| | Land preparation | | - Prepare main plots for ploughing. |
| | to nursery (Main | | - Prepare main plots for ploughing Raise community nursery in upland area/ terrace so that it may be least affected |
| | kharif rice) | | with the heavy rains. |
| Comboom | Land preparation | | - Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing |
| Soybean/ | Land preparation | | thoroughly in the soil 1 - 2 weeks before sowing as basal application during final |
| Groundnut/ | | | ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ |
| Blackgram | | | |
| | C.1 | | 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing. |
| Rabi maize | Cob maturity to | | - Avoid water logging by constructing proper drainage system. |
| | harvesting | | T 1 (' C ' 1' 1' 1 4 1 A 1 CO1 C C51 |
| | a · | | Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg |
| Kharif Maize | Sowing | | of DAP and 30 kg of MOP per hectare as a basal application during final |
| | | | ploughing or at the time of sowing. For high altitude spacing may be 50cm x |
| | | | 25cm while for low altitude it may be 60cm x 30cm. |
| Blackgram & | Land preparation | | - After this wet spell, land preparation may be done for sowing. It should be |
| Rice bean | | | made weed free before sowing. |
| | | | - For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper |
| | Post harvest | | drying of seeds along with charcoal at 80:20. Check for moisture content or |
| Seeds storage | management | | weight of seeds. |
| | | | - For grains, store grains in well ventilated godowns after drying proper. Spray |
| | | | Malathion 1% in <i>godowns</i> . |
| Horticulture Crops | | | |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| French Bean | Vegetative | | - Provisions may be made to construct proper drainage system to avoid water |
| | | | logging. |
| Ginger & turmeric | Planting to early | | - Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) |
| | vegetative | | and turmeric (25cm plant to plant and 40-45cm row to row). |
| | | | - Provide proper drainage to avoid water logging in crop. |
| Cucurbits | Vegetative | Red Pumpkin | Use Methyl Euginol as trap @ 4-10 traps/ sangam. |
| | | Beetle | Steps to prepare trap: |
| | | | - Cut the ½ litre empty mineral water bottle into two halves. |
| | | | - Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half, cover |
| | | | the solution with the upper half of the bottle in inverted position so that a |
| | | | funnel like structure is made and beetles are lured. |
| | | Mite | - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre |
| | | | of water. |
| Bhindi | Vegetative | | - Construct proper drainage system to avoid water logging. |
| | | | - After rains apply 38kg Urea+ 125kg SSP+ 24kg MOP per sangam as basal dose |
| Tomato/ Brinjal | Vegetative | | and 25kg Urea after 25-30days after tansplanting. |
| • | | | - Construct proper drainage system to avoid water logging. |



Manipur Centre, Lamphelpat, Imphal - 795 004





| | | | Mite | - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water. |
|-----------------------|-------------------------|-----------------------|-----------------------------------|---|
| Chilli/ capsicur | li/ capsicum Vegetative | | | In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. - Construct proper drainage system to avoid water logging. |
| Animal Science | | | | |
| * Provide clean d | lrinki | ng water for birds | | , |
| Name of bird/ ani | | Stage | Disease and Management | Agro-meteorological advisories |
| Poultry (Chicker | 1/ | All age groups | Fowl Pox | Vaccinate against fowl pox. |
| Turkey/ Duck) | | | Deworming | Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks. |
| | | All age groups | Vaccination | - Vaccinate against Enterotoxaemia and sheep pox. |
| Sheep/ Goat | | excepts the youn | g Management | - Pregnant animal (more than 6 months) should be given additional feed. |
| | | ones | Mineral feeding to protect (PICA) | - Mineral mixtures are to be supplemented. |
| | | | Deworming | New born but not yet been dewormed should be given deworming agent. |
| | | | De-worming | De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt. |
| | | All age groups | Swine Fever | - SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months. |
| Pig | | except the young | FMD Mineral feeding | - Vaccinate against FMD after the age of 3 months. ➤ Provide mineral mixture. |
| | | ones | | |
| | | | Care and management | Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD. |
| | | | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | | Fodder cultivation | Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days. |
| Cattle | | All age groups | Estoporositos | - Butox@ 2ml/lit of water at forth nightly interval. |
| | | excepts the youn ones | g Mastitis | Animals should be milked completely. |
| | | olles | Management | - Some female animals may get agitated due to the heat especially during night time, protect and take care of it. |
| Fishery | | | | |
| Type of Farming | Sta | age | management | Agro-metrological advisories |
| | | rseries | Pond and water | Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. |
| | | | Feed | Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day |
| | | | Fish | 20-30 million spawn can be stock in 1 ha pond. |
| | Gro | ow -out | Pond and water | Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days shoul be done. |
| | | | Fish | 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. |
| | 1 | - | | |

SMS:

Paddy cum

fish culture

Field

Lakliba Sagolshel faoba nungsit akanbaga loinana nong taba yai. Phou, leibak hawai, nunghawai, sagolhawai amadi chak-hawai thabinaba maru afaba lousanbiba yarani. Shing/ yaingang thabiba yarani. Oak ta til leitanaba masagi arumba kg khudingda 7.5mg Albendazole pibiyu.

Feed

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

As the temperature has increased considerably, farmers must increase the feeding

Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of

the rice field can be converted into trenches/ditch/channels for paddy cum fish

rate by 25-30% in grow-out ponds.

culture.



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN

2nd May, 2017

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 3rd to 7th May, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th April to 1st May, 2017)

Observed mainly clear sky during past four days except during morning hours of 28^{th} with partly cloudy sky and **11.7 mm** rainfall was recorded. Maximum temperature range of 28.9 to 30.5 $^{\circ}$ C and minimum temperature range of 17.0 to 18.9 $^{\circ}$ C with mean relative humidity 82.25 % max and 50.5 % min was recorded in the past four days. The average wind speed was observed to be 4.4-5.1 km/hr.

Weather forecast for next five days of Senapati (3rd to 7th May, 2017)

Likely to have thunderstorm with squall very likely at isolated places on $3^{\rm rd}$ May with partly cloudy to mainly cloudy sky and maximum temp. $31-32\,^{\rm o}$ C & minimum temp. 20- $21\,^{\rm o}$ C. Relative humidity may reach up to 98 % (max RH) & 42 % (min RH). The average wind speed may be 2-4 km/hr.

| Name of the crop | ovide proper drainage Stage | Pest and disease | Agro-meteorological advisories |
|--------------------|--------------------------------|-------------------|---|
| reame of the crop | Stage | 1 est and disease | - Hand weeding may be done. Drain out excess water and top dress with Urea |
| | Tillering | | @33kg / ha and MOP @22kg/ ha. Irrigate again after 48 hours of fertilizer |
| | (Pre-kharif rice) | | application after heavy rains. |
| | (Fie kharii fice) | | - After rains, Application of 30kg Carbofuran (3G)/ ha with first top dressing of |
| Rice | | | fertilizer to protect crop from insect pest and nematodes. |
| | Land preparation | | - Prepare main plots for ploughing. |
| | to nursery (Main | | - Raise community nursery in upland area/ terrace so that it may be least affected |
| | kharif rice) | | with the heavy rains. |
| Soybean/ | Land preparation | | - Apply 10 - 15 t/ha or 2.5 - 3 t/sangam of FYM or compost by mixing |
| Groundnut/ | | | thoroughly in the soil 1 - 2 weeks before sowing as basal application during final |
| Blackgram | | | ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ |
| | | | 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing. |
| Rabi maize | Cob maturity to | | - Avoid water logging by constructing proper drainage system. |
| Kabi iliaize | harvesting | | |
| | | | Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg |
| Kharif Maize | Sowing | | of DAP and 30 kg of MOP per hectare as a basal application during final |
| Kharii Maize | | | ploughing or at the time of sowing. For high altitude spacing may be 50cm x |
| | | | 25cm while for low altitude it may be 60cm x 30cm. |
| Blackgram & | Land preparation | | - After this wet spell, land preparation may be done for sowing. It should be |
| Rice bean | | | made weed free before sowing. |
| | | | - For seed purpose dry, clean and store the seeds in RC-seed bins after prope |
| | Post harvest | | drying of seeds along with charcoal at 80:20. Check for moisture content of |
| Seeds storage | management | | weight of seeds. |
| 0 | C | | - For grains, store grains in well ventilated godowns after drying proper. Sprag |
| | | | Malathion 1% in <i>godowns</i> . |
| Horticulture Crops | | | 1 |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| French Bean | Vegetative | | - Provisions may be made to construct proper drainage system to avoid water |
| G: 0.4 · | Di di di 1 | | logging. |
| Ginger & turmeric | Planting to early | | - Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row |
| | vegetative | | and turmeric (25cm plant to plant and 40-45cm row to row). |
| G 14: | T 7 | D 1D 1' | - Provide proper drainage to avoid water logging in crop. |
| Cucurbits | Vegetative | Red Pumpkin | Use Methyl Euginol as trap @ 4-10 traps/ sangam. |
| | | Beetle | Steps to prepare trap: |
| | | | - Cut the ½ litre empty mineral water bottle into two halves. |
| | | | - Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half, cove |
| | | | the solution with the upper half of the bottle in inverted position so that |
| | | Mit | funnel like structure is made and beetles are lured. |
| | | Mite | - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litro of water. |
| DI 1 11 | Vt-ti- | | |
| Bhindi | Vegetative | | - Construct proper drainage system to avoid water logging. |
| | Vegetative | | - After rains apply 38kg Urea+ 125kg SSP+ 24kg MOP per sangam as basal dose |
| Tomato/ Brinjal | | | and 25kg Urea after 25-30days after tansplanting. |
| | | | - Construct proper drainage system to avoid water logging. |



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| | | | Mite | - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of |
|------------------------------------|----------------|--------------------|-----------------------------------|---|
| | | | | water. |
| Chilli/ capsicum | | Vegetative | | In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% |
| | | | | WP) @ 2 g/ litre of water to control the fungal attack after rains. |
| | | | | - Construct proper drainage system to avoid water logging. |
| Animal Science | | | | |
| | | ng water for birds | | |
| Name of bird/ anim | mal | Stage | Disease and Management | Agro-meteorological advisories |
| Poultry (Chicken/ Turkey/ Duck) | | All age groups | Fowl Pox | Vaccinate against fowl pox. |
| | | | Deworming | ➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks. |
| | | All age groups | Vaccination | - Vaccinate against Enterotoxaemia and sheep pox. |
| Sheep/ Goat | | excepts the young | Management | - Pregnant animal (more than 6 months) should be given additional feed. |
| эпсер/ Соас | | ones | Mineral feeding to protect (PICA) | - Mineral mixtures are to be supplemented. |
| | | | Deworming | New born but not yet been dewormed should be given deworming agent. |
| | | | De-worming | De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt. |
| | | | Swine Fever | - SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be |
| | | All age groups | | administered after the age of 3 months. |
| Pig | ļ | except the young | FMD | - Vaccinate against FMD after the age of 3 months. |
| | | ones | Mineral feeding | Provide mineral mixture. |
| | | | Care and | Provide clean water (drinking). |
| | | | management | Add antibiotics in feed and water. |
| | | | | Vaccinate against FMD. |
| | | | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | All age groups | Fodder cultivation | ➤ Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days. |
| Cattle | | excepts the young | Ectoparasites | - Butox@ 2ml/lit of water at forth nightly interval. |
| | | ones | Mastitis | Animals should be milked completely. |
| | | ones | Management | - Some female animals may get agitated due to the heat especially during night |
| | | | | time, protect and take care of it. |
| Fishery | | | | |
| Type of Farming | Sta | ge | management | Agro-metrological advisories |
| Carp culture | nurs | series | Pond and water | Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. |
| | | | Feed | Well balanced feeds should be provided 2-3 times a day @ 5-10% body |
| | | | 1 000 | weight/day |
| | | - | Fish | 20-30 million spawn can be stock in 1 ha pond. |
| | Gro | | Pond and water | Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days shoul |
| | | | | be done. |
| | | | Fish | 8000-10,000 fingerlings can be stocked per ha. |
| | | | | Sampling of fish for growth, diseases (if any) should be done by regular netting. |
| | | | Feed | As the temperature has increased considerably, farmers must increase the feeding |
| | | | | rate by 25-30% in grow-out ponds. |
| Paddy cum | addy cum Field | | | Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% o |
| fish culture | | | | the rice field can be converted into trenches/ditch/channels for paddy cum fish |
| | | | | culture. |

SMS:

Lakliba Sagolshel faoba nungsit akanbaga loinana nong taba yai. Phou, leibak hawai, nunghawai, sagolhawai amadi chak-hawai thabinaba maru afaba lousanbiba yarani. Shing/ yaingang thabiba yarani. Oak ta til leitanaba masagi arumba kg khudingda 7.5mg Albendazole pibiyu.



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MANIPUR BULLETIN

2nd May, 2017

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 3rd to 7th May, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th April to 1st May, 2017)

Observed mainly clear sky during past four days except during morning hours of 28^{th} with partly cloudy sky and **11.7 mm** rainfall was recorded. Maximum temperature range of 28.9 to 30.5 °C and minimum temperature range of 17.0 to 18.9 °C with mean relative humidity 82.25% max and 50.5% min was recorded in the past four days. The average wind speed was observed to be 4.4-5.1 km/hr.

Weather forecast for next five days of Tamenglong (3rd to 7th May, 2017)

Likely to have thunderstorm with squall very likely at isolated places on $3^{\rm rd}$ May with partly cloudy to mainly cloudy sky and maximum temp. $31-32\ ^{\rm o}$ C & minimum temp. 20- $22\ ^{\rm o}$ C. Relative humidity may reach up to 98 % (max RH) & 46 % (min RH). The average wind speed may be 2-3 km/hr.

| Field Crops | | | |
|-------------------------------------|--|-----------------------|---|
| * Harvest rain water. Pr | | | |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Rice | Tillering (Pre-kharif rice) | | - Hand weeding may be done. Drain out excess water and top dress with Urea @33kg / ha and MOP @22kg/ ha. Irrigate again after 48 hours of fertilizer application after heavy rains. - After rains, Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes. |
| | Land preparation to nursery (Main kharif rice) | | - Prepare main plots for ploughing. - Raise community nursery in upland area/ terrace so that it may be least affected with the heavy rains. |
| Soybean/ Groundnut/ Blackgram | Land preparation | | - Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing. |
| Rabi maize | Cob maturity to harvesting | | - Avoid water logging by constructing proper drainage system. |
| Kharif Maize | Sowing | | Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm. |
| Blackgram & | Land preparation | | - After this wet spell, land preparation may be done for sowing. It should be |
| Rice bean | | | made weed free before sowing. |
| Seeds storage | Post harvest management | | For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% in <i>godowns</i>. |
| Horticulture Crops | | | radianon 1/6 m gouverns. |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| French Bean | Vegetative | 2 obv with disouse | - Provisions may be made to construct proper drainage system to avoid water logging. |
| Ginger & turmeric | Planting to early vegetative | | - Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row). - Provide proper drainage to avoid water logging in crop. |
| Cucurbits | Vegetative | Red Pumpkin Beetle | Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap: - Cut the ½ litre empty mineral water bottle into two halves. - Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half, cover the solution with the upper half of the bottle in inverted position so that a funnel like structure is made and beetles are lured. |
| | | Mite | - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water. |
| Bhindi | Vegetative | | - Construct proper drainage system to avoid water logging. |
| Tomato/ Brinjal | Vegetative | | After rains apply 38kg Urea+ 125kg SSP+ 24kg MOP per sangam as basal dose and 25kg Urea after 25-30days after tansplanting. Construct proper drainage system to avoid water logging. |



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| | | | Mite | - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of |
|---------------------------|-----------------------|---------------------------------|-----------------------------------|---|
| | | | | water. |
| Chilli/ capsicum | | Vegetative | | In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% |
| | | | | WP) @ 2 g/litre of water to control the fungal attack after rains. |
| | | | | - Construct proper drainage system to avoid water logging. |
| Animal Science | | | | |
| * Provide clean of | | | | |
| Name of bird/ ani | mal | Stage | Disease and Management | Agro-meteorological advisories |
| Poultry (Chicker | 1/ | All age groups | Fowl Pox | Vaccinate against fowl pox. |
| Turkey/ Duck) | | | Deworming | Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks. |
| | | All age groups | Vaccination | - Vaccinate against Enterotoxaemia and sheep pox. |
| Sheep/ Goat | | excepts the young | Management | - Pregnant animal (more than 6 months) should be given additional feed. |
| Sheep/ Goat | | ones | Mineral feeding to protect (PICA) | - Mineral mixtures are to be supplemented. |
| | | | Deworming | New born but not yet been dewormed should be given deworming agent. |
| | | | De-worming | De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt. |
| Dia. | | All age groups except the young | Swine Fever FMD | - SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months Vaccinate against FMD after the age of 3 months. |
| Pig | | ones | Mineral feeding | Provide mineral mixture. |
| | | 01100 | Care and | Provide clean water (drinking). |
| | | | management | Add antibiotics in feed and water. |
| | | | management | Vaccinate against FMD. |
| | | | Mites infestation | > Spray with Skin Heal Spray in sufficient quantity. |
| | | | Fodder cultivation | Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days. |
| Cattle | | All age groups | Ectoparacites | - Butox@ 2ml/lit of water at forth nightly interval. |
| | | excepts the young | Mastitis | Animals should be milked completely. |
| | | ones | Management | - Some female animals may get agitated due to the heat especially during night |
| | | | | time, protect and take care of it. |
| Fishery | · | | | |
| Type of Farming | Stage | e | management | Agro-metrological advisories |
| Carp culture | nurse | eries | Pond and water | Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. |
| | | | Feed | Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day |
| | L | | Fish | 20-30 million spawn can be stock in 1 ha pond. |
| | Grow | v -out | Pond and water | Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. |
| | | | Fish | 8000-10,000 fingerlings can be stocked per ha. |
| | | - | F1 | Sampling of fish for growth, diseases (if any) should be done by regular netting. |
| | | | Feed | As the temperature has increased considerably, farmers must increase the feeding |
| D. 11. | T2: -1 1 | | | rate by 25-30% in grow-out ponds. |
| Paddy cum fish culture | Paddy cum Field Field | | | Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish |
| | | | | culture. |

SMS:

Lakliba Sagolshel faoba nungsit akanbaga loinana nong taba yai. Phou, leibak hawai, nunghawai, sagolhawai amadi chak-hawai thabinaba maru afaba lousanbiba yarani. Shing/ yaingang thabiba yarani. Oak ta til leitanaba masagi arumba kg khudingda 7.5mg Albendazole pibiyu.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

2nd May, 2017

Thoubal

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Weather forecast for next five days of Thoubal (3rd to 7th May, 2017)

Likely to have thunderstorm with squall very likely at isolated places on $3^{\rm rd}$ May with partly cloudy to mainly cloudy sky and maximum temp. $31-33\,^{\circ}$ C & minimum temp. 19 - $21\,^{\circ}$ C. Relative humidity may reach up to 96 % (max RH) & 38 % (min RH). The average wind speed may be 0-4 km/hr.

| Field Crops * Harvest rain water. Pr | ovide proper drainage | e system to avoid water | logging. |
|---------------------------------------|--|-------------------------|--|
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
| Rice | Tillering (Pre-kharif rice) | | Hand weeding may be done. Drain out excess water and top dress with Urea @33kg / ha and MOP @22kg/ ha. Irrigate again after 48 hours of fertilizer application after heavy rains. After rains, Application of 30kg Carbofuran (3G)/ ha with first top dressing of fertilizer to protect crop from insect pest and nematodes. |
| | Land preparation to nursery (Main kharif rice) | | Prepare main plots for ploughing. Raise community nursery in upland area/ terrace so that it may be least affected with the heavy rains. |
| Soybean/ Groundnut/ Blackgram | Land preparation | | - Apply 10 - 15 t/ha or 2.5 - 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing. |
| Rabi maize | Cob maturity to harvesting | | - Avoid water logging by constructing proper drainage system. |
| Kharif Maize | Sowing | | Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm. |
| Blackgram & Rice bean | Land preparation | | - After this wet spell, land preparation may be done for sowing. It should be made weed free before sowing. |
| Seeds storage | Post harvest management | | For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% in <i>godowns</i>. |
| Horticulture Crops | | | , , , , , , , , , , , , , , , , , , , |
| Name of the crop | Stage | Pest and disease | Agro-meteorological advisories |
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|-----------------------------|------------|--------------------|---|--|
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| Animal Science | ?S | | | Construct proper trainings of stem to avoid water rogging. |
| | | ng water for birds | and animals. | |
| Name of bird/ ani | | Stage | Disease and Management | Agro-meteorological advisories |
| Poultry (Chicker | 1 / | All age groups | Fowl Pox | Vaccinate against fowl pox. |
| Turkey/ Duck) | | | Deworming | Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks. |
| | | All age groups | Vaccination | - Vaccinate against Enterotoxaemia and sheep pox. |
| Charm! Cast | | excepts the young | Management | - Pregnant animal (more than 6 months) should be given additional feed. |
| Sheep/ Goat | | ones | Mineral feeding to protect (PICA) | - Mineral mixtures are to be supplemented. |
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| | | | Mites infestation | Spray with Skin Heal Spray in sufficient quantity. |
| | | | Fodder cultivation | Maize/ Jowar/ Bajra sown as fodder crop may be harvested after 45-50 days. |
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| Fishery | | 1 | | |
| Type of Farming | Sta | ige | management | Agro-metrological advisories |
| Carp culture | nur | rseries | Pond and water | Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. |
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| | | | | Juliuro. |

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