



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

3rd May, 2016

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th to 8th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th April to 2nd May, 2016) The sky was fair to mainly cloudy. Rainfall of 39.7 mm was recorded during past four days. Maximum temperature range observed was 30.3 to 33.0 °C, range of minimum temperature observed was 17.6 – 22.0 °C, mean relative humidity observed in morning and afternoon were 89 % and 58.5 % respectively. The average wind speed range was 3.3 to 7.4 km/hr.	Weather forecast for next five days of Thoubal (4th to 8th May, 2016) Likely to have light rain with thunderstorm upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp of 29.0-31.0 °C & minimum temp of 17.0-18.0 °C. Relative humidity may reach up to 93 % (max RH) & 33 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be South Easterly to North west Westerly during the next five days.
---	--

Weather Outlook for subsequent 2 days from 8th to 10th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Thunderstorm accompanied with squall likely at isolated places over Manipur on 3rd and 4th May, 2016

Heavy rain likely at isolated places over Manipur on 5th May, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
Early kharif rice	Main field preparation to transplanting		- Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - Transplanting may be done upto mid of April. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		- Land preparation for sowing of soybean/ groundnut/ blackgram may be started. - Apply 10 – 13 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Horticulture Crops			
Ginger/Turmeric	Preparation for sowing		-The seed rhizome should be screened from pest and diseases -Spread in the shed for 1-2 days -Treat rhizome with Captan 50 W P or Hexaconazole @ 3gm/kg seed & keep for ½ hour and sowing may be done. -Spacing for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm - Desirable weight of rhizome-15-25 gm with 2-3buds. -Mulching with dried twigs/paddy straw is recommended. -Complete sowing as early as possible preferably in the upland areas. -Trichoderma harzianum may also be used for seed treatment.
Bhindi/cowpea	Land preparation		-Proper drainage should be given to drain excess water -No sowing should be done except in permissible field condition.
Onion	Harvesting		-Mature onion should be harvested and dried in airy shed.
Tomato	Harvesting		-50% mature/ripen fruits may be harvested and kept in a cooler place.
Water melon			-In early stage the beds and ridges should be free from weeds. In the later stage the vine will automatically cover the space in between the plants. Hence, weeding cum top dressing is recommended
Allium odorosum			-Plantation of <i>Allium odorosum</i> (Maroi nakuppi). -High density planting (1-0-12 nos. of rhizome) per hill is recommended for high yield at a spacing of 6" X 6". -Coriander seed may also be sown in between the Allium Species as an intercrop.
Fruit plants (Banana, Lime, Lemon,	Procurement of planting material		-Jungle cutting and preparation of pit for planting/transplanting of these fruit plants should be started. Pit preparation should be done atleast 1 month ahead of planting.



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



“Gramin Krishi Mausam Seva”

Orange, Kiwi, etc.)			-Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect from dehydration, provision for wholesome and clear water (cool) be maintained properly atleast four times during the day.
		Ranikhet Diseases	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). After that at every two months interval.
Sheep/ Goat	All age groups excepts the young ones		- Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Deworming	-Give Morantel citrate tablet @ 15 mg/kg of body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Hog Cholera	-Vaccination against swine fever must be carried out.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder crops	-Maize should be sown for use as green fodder. -Napier/Guinea grass may be transplanted. -Silage can be prepared.
		Puerperal Fever in Pregnant animals	-50-60 gram of mineral mixture every day.
		Decrease in milk production	-The milk & urine samples must be sent for testing.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability is low.

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



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



“Gramin Krishi Mausam Seva”



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

3rd May, 2016

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 4th to 8th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th April to 2nd May, 2016) The sky was fair to mainly cloudy. Rainfall of 39.7 mm was recorded during past four days. Maximum temperature range observed was 30.3 to 33.0 °C, range of minimum temperature observed was 17.6 – 22.0 °C, mean relative humidity observed in morning and afternoon were 89 % and 58.5 % respectively. The average wind speed range was 3.3 to 7.4 km/hr.	Weather forecast for next five days of Ukhrul (4th to 8th May, 2016) Likely to have light rain with thunderstorm upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp of 30.0-31.0 ° C & minimum temp of 17.0-18.0 ° C. Relative humidity may reach upto 83 % (max RH) & 30 % (min RH). The average wind speed may be 3-4 km/hr. Wind direction may be South Westerly to North Westerly during the next five days.
---	---

Weather Outlook for subsequent 2 days from 8th to 10th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Thunderstorm accompanied with squall likely at isolated places over Manipur on 3rd and 4th May, 2016

Heavy rain likely at isolated places over Manipur on 5th May, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
Early kharif rice	Main field preparation to transplanting		- Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - Transplanting may be done upto mid of April. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		- Land preparation for sowing of soybean/ groundnut/ blackgram may be started. - Apply 10 – 13 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Horticulture Crops			
Ginger/Turmeric	Preparation for sowing		-The seed rhizome should be screened from pest and diseases -Spread in the shed for 1-2 days -Treat rhizome with Captan 50 W P or Hexaconazab @ 3gm/kg seed & keep for ½ hour and sowing may be done. -Spacing for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm - Desirable weight of rhizome-15-25 gm with 2-3buds. -Mulching with dried twigs/paddy straw is recommended. -Complete sowing as early as possible preferably in the upland areas. -Trichoderma harzianum may also be used for seed treatment.
Bhindi/cowpea	Land preparation		-Proper drainage should be given to drain excess water -No sowing should be done except in permissible field condition.
Onion	Harvesting		-Mature onion should be harvested and dried in airy shed.
Tomato	Harvesting		-50% mature/ripen fruits may be harvested and kept in a cooler place.
Water melon			-In early stage the beds and ridges should be free from weeds. In the later stage the vine will automatically cover the space in between the plants. Hence, weeding cum top dressing is recommended
Allium odorosum			-Plantation of <i>Allium odorosum</i> (Maroi nakuppi). -High density planting (1-0-12 nos. of rhizome) per hill is recommended for high yield at a spacing of 6" X 6". -Coriander seed may also be sown in between the Allium Species as an intercrop.
Fruit plants (Banana, Lime, Lemon,	Procurement of planting material		-Jungle cutting and preparation of pit for planting/transplanting of these fruit plants should be started. Pit preparation should be done atleast 1 month ahead of planting.



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



“Gramin Krishi Mausam Seva”

Orange, Kiwi, etc.)			-Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect from dehydration, provision for wholesome and clear water (cool) be maintained properly atleast four times during the day.
		Ranikhet Diseases	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). After that at every two months interval.
Sheep/ Goat	All age groups excepts the young ones		- Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Deworming	-Give Morantel citrate tablet @ 15 mg/kg of body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Hog Cholera	-Vaccination against swine fever must be carried out.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder crops	-Maize should be sown for use as green fodder. -Napier/Guinea grass may be transplanted. -Silage can be prepared.
		Puerperal Fever in Pregnant animals	-50-60 gram of mineral mixture every day.
		Decrease in milk production	-The milk & urine samples must be sent for testing.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability is low.

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



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



“Gramin Krishi Mausam Seva”



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

3rd May, 2016

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th to 8th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th April to 2nd May, 2016) The sky was fair to mainly cloudy. Rainfall of 39.7 mm was recorded during past four days. Maximum temperature range observed was 30.3 to 33.0 °C, range of minimum temperature observed was 17.6 – 22.0 °C, mean relative humidity observed in morning and afternoon were 89 % and 58.5 % respectively. The average wind speed range was 3.3 to 7.4 km/hr.	Weather forecast for next five days of Bishnupur (4th to 8th May, 2016) Likely to have light rain with thunderstorm upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp of 29.0-31.0 ° C & minimum temp of 18.0-19.0 ° C. Relative humidity may reach upto 94 % (max RH) & 38 % (min RH). The average wind speed may be 3-4 km/hr. Wind direction may be South-south Easterly to Westerly during the next five days.
---	--

Weather Outlook for subsequent 2 days from 8th to 10th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Thunderstorm accompanied with squall likely at isolated places over Manipur on 3rd and 4th May, 2016

Heavy rain likely at isolated places over Manipur on 5th May, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
Early kharif rice	Main field preparation to transplanting		- Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - Transplanting may be done upto mid of April. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		- Land preparation for sowing of soybean/ groundnut/ blackgram may be started. - Apply 10 – 13 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Horticulture Crops			
Ginger/Turmeric	Preparation for sowing		-The seed rhizome should be screened from pest and diseases -Spread in the shed for 1-2 days -Treat rhizome with Captan 50 W P or Hexaconazab @ 3gm/kg seed & keep for ½ hour and sowing may be done. -Spacing for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm - Desirable weight of rhizome-15-25 gm with 2-3buds. -Mulching with dried twigs/paddy straw is recommended. -Complete sowing as early as possible preferably in the upland areas. -Trichoderma harzianum may also be used for seed treatment.
Bhindi/cowpea	Land preparation		-Proper drainage should be given to drain excess water -No sowing should be done except in permissible field condition.
Onion	Harvesting		-Mature onion should be harvested and dried in airy shed.
Tomato	Harvesting		-50% mature/ripen fruits may be harvested and kept in a cooler place.
Water melon			-In early stage the beds and ridges should be free from weeds. In the later stage the vine will automatically cover the space in between the plants. Hence, weeding cum top dressing is recommended
Allium odorosum			-Plantation of <i>Allium odorosum</i> (Maroi nakuppi). -High density planting (1-0-12 nos. of rhizome) per hill is recommended for high yield at a spacing of 6" X 6". -Coriander seed may also be sown in between the Allium Species as an intercrop.
Fruit plants (Banana, Lime, Lemon,	Procurement of planting material		-Jungle cutting and preparation of pit for planting/transplanting of these fruit plants should be started. Pit preparation should be done atleast 1 month ahead of planting.



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



“Gramin Krishi Mausam Seva”

Orange, Kiwi, etc.)			-Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect from dehydration, provision for wholesome and clear water (cool) be maintained properly atleast four times during the day.
		Ranikhet Diseases	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). After that at every two months interval.
Sheep/ Goat	All age groups excepts the young ones		- Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Deworming	-Give Morantel citrate tablet @ 15 mg/kg of body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Hog Cholera	-Vaccination against swine fever must be carried out.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder crops	-Maize should be sown for use as green fodder. -Napier/Guinea grass may be transplanted. -Silage can be prepared.
		Puerperal Fever in Pregnant animals	-50-60 gram of mineral mixture every day.
		Decrease in milk production	-The milk & urine samples must be sent for testing.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability is low.

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



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



“Gramin Krishi Mausam Seva”



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

3rd May, 2016

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 4th to 8th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th April to 2nd May, 2016) The sky was fair to mainly cloudy. Rainfall of 39.7 mm was recorded during past four days. Maximum temperature range observed was 30.3 to 33.0 °C, range of minimum temperature observed was 17.6 – 22.0 °C, mean relative humidity observed in morning and afternoon were 89 % and 58.5 % respectively. The average wind speed range was 3.3 to 7.4 km/hr.	Weather forecast for next five days of Chandel (4th to 8th May, 2016) Likely to have light rain with thunderstorm upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp of 30.0-31.0 °C & minimum temp of 18.0-19.0 °C. Relative humidity may reach upto 84 % (max RH) & 29 % (min RH). The average wind speed may be 4-5 km/hr. Wind direction may be South-west Westerly to North-westerly during the next five days.
---	---

Weather Outlook for subsequent 2 days from 8th to 10th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Thunderstorm accompanied with squall likely at isolated places over Manipur on 3rd and 4th May, 2016

Heavy rain likely at isolated places over Manipur on 5th May, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
Early kharif rice	Main field preparation to transplanting		- Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - Transplanting may be done upto mid of April. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		- Land preparation for sowing of soybean/ groundnut/ blackgram may be started. - Apply 10 – 13 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Horticulture Crops			
Ginger/Turmeric	Preparation for sowing		-The seed rhizome should be screened from pest and diseases -Spread in the shed for 1-2 days -Treat rhizome with Captan 50 W P or Hexaconazab @ 3gm/kg seed & keep for ½ hour and sowing may be done. -Spacing for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm - Desirable weight of rhizome-15-25 gm with 2-3buds. -Mulching with dried twigs/paddy straw is recommended. -Complete sowing as early as possible preferably in the upland areas. -Trichoderma harzianum may also be used for seed treatment.
Bhindi/cowpea	Land preparation		-Proper drainage should be given to drain excess water -No sowing should be done except in permissible field condition.
Onion	Harvesting		-Mature onion should be harvested and dried in airy shed.
Tomato	Harvesting		-50% mature/ripen fruits may be harvested and kept in a cooler place.
Water melon			-In early stage the beds and ridges should be free from weeds. In the later stage the vine will automatically cover the space in between the plants. Hence, weeding cum top dressing is recommended
Allium odorosum			-Plantation of <i>Allium odorosum</i> (Maroi nakuppi). -High density planting (1-0-12 nos. of rhizome) per hill is recommended for high yield at a spacing of 6" X 6". -Coriander seed may also be sown in between the Allium Species as an intercrop.
Fruit plants (Banana, Lime, Lemon,	Procurement of planting material		-Jungle cutting and preparation of pit for planting/transplanting of these fruit plants should be started. Pit preparation should be done atleast 1 month ahead of planting.



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



“Gramin Krishi Mausam Seva”

Orange, Kiwi, etc.)			-Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect from dehydration, provision for wholesome and clear water (cool) be maintained properly atleast four times during the day.
		Ranikhet Diseases	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). After that at every two months interval.
Sheep/ Goat	All age groups excepts the young ones		- Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Deworming	-Give Morantel citrate tablet @ 15 mg/kg of body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Hog Cholera	-Vaccination against swine fever must be carried out.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder crops	-Maize should be sown for use as green fodder. -Napier/Guinea grass may be transplanted. -Silage can be prepared.
		Puerperal Fever in Pregnant animals	-50-60 gram of mineral mixture every day.
		Decrease in milk production	-The milk & urine samples must be sent for testing.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability is low.

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



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



“Gramin Krishi Mausam Seva”



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

3rd May, 2016

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 4th to 8th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th April to 2nd May, 2016) The sky was fair to mainly cloudy. Rainfall of 39.7 mm was recorded during past four days. Maximum temperature range observed was 30.3 to 33.0 °C, range of minimum temperature observed was 17.6 – 22.0 °C, mean relative humidity observed in morning and afternoon were 89 % and 58.5 % respectively. The average wind speed range was 3.3 to 7.4 km/hr.	Weather forecast for next five days of Churachandpur (4th to 8th May, 2016) Likely to have light rain with thunderstorm upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp of 30.0-31.0 ° C & minimum temp of 17.0-19.0 ° C. Relative humidity may reach upto 95 % (max RH) & 39 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be Southerly to South Westerly during the next five days.
---	---

Weather Outlook for subsequent 2 days from 8th to 10th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Thunderstorm accompanied with squall likely at isolated places over Manipur on 3rd and 4th May, 2016

Heavy rain likely at isolated places over Manipur on 5th May, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
Early kharif rice	Main field preparation to transplanting		- Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - Transplanting may be done upto mid of April. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		- Land preparation for sowing of soybean/ groundnut/ blackgram may be started. - Apply 10 – 13 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Horticulture Crops			
Ginger/Turmeric	Preparation for sowing		-The seed rhizome should be screened from pest and diseases -Spread in the shed for 1-2 days -Treat rhizome with Captan 50 W P or Hexaconazab @ 3gm/kg seed & keep for ½ hour and sowing may be done. -Spacing for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm - Desirable weight of rhizome-15-25 gm with 2-3buds. -Mulching with dried twigs/paddy straw is recommended. -Complete sowing as early as possible preferably in the upland areas. -Trichoderma harzianum may also be used for seed treatment.
Bhindi/cowpea	Land preparation		-Proper drainage should be given to drain excess water -No sowing should be done except in permissible field condition.
Onion	Harvesting		-Mature onion should be harvested and dried in airy shed.
Tomato	Harvesting		-50% mature/ripen fruits may be harvested and kept in a cooler place.
Water melon			-In early stage the beds and ridges should be free from weeds. In the later stage the vine will automatically cover the space in between the plants. Hence, weeding cum top dressing is recommended
Allium odorosum			-Plantation of <i>Allium odorosum</i> (Maroi nakuppi). -High density planting (1-0-12 nos. of rhizome) per hill is recommended for high yield at a spacing of 6" X 6". -Coriander seed may also be sown in between the Allium Species as an intercrop.
Fruit plants (Banana, Lime, Lemon,	Procurement of planting material		-Jungle cutting and preparation of pit for planting/transplanting of these fruit plants should be started. Pit preparation should be done atleast 1 month ahead of planting.



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



“Gramin Krishi Mausam Seva”

Orange, Kiwi, etc.)			-Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect from dehydration, provision for wholesome and clear water (cool) be maintained properly atleast four times during the day.
		Ranikhet Diseases	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). After that at every two months interval.
Sheep/ Goat	All age groups excepts the young ones		- Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Deworming	-Give Morantel citrate tablet @ 15 mg/kg of body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Hog Cholera	-Vaccination against swine fever must be carried out.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder crops	-Maize should be sown for use as green fodder. -Napier/Guinea grass may be transplanted. -Silage can be prepared.
		Puerperal Fever in Pregnant animals	-50-60 gram of mineral mixture every day.
		Decrease in milk production	-The milk & urine samples must be sent for testing.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability is low.

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



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



“Gramin Krishi Mausam Seva”



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

3rd May, 2016

Imphal East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th to 8th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th April to 2nd May, 2016) The sky was fair to mainly cloudy. Rainfall of 39.7 mm was recorded during past four days. Maximum temperature range observed was 30.3 to 33.0 °C, range of minimum temperature observed was 17.6 – 22.0 °C, mean relative humidity observed in morning and afternoon were 89 % and 58.5 % respectively. The average wind speed range was 3.3 to 7.4 km/hr.	Weather forecast for next five days of Imphal East (4th to 8th May, 2016) Likely to have light rain with thunderstorm upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp. of 29.0-30.0 °C & minimum temp. 17.0-18.0 °C. Relative humidity may reach upto 98 % (max RH) & 35 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North east Easterly to North Westerly during the next five days.
---	--

Weather Outlook for subsequent 2 days from 8th to 10th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Thunderstorm accompanied with squall likely at isolated places over Manipur on 3rd and 4th May, 2016

Heavy rain likely at isolated places over Manipur on 5th May, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
Early kharif rice	Main field preparation to transplanting		- Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - Transplanting may be done upto mid of April. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		- Land preparation for sowing of soybean/ groundnut/ blackgram may be started. - Apply 10 – 13 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Horticulture Crops			
Ginger/Turmeric	Preparation for sowing		-The seed rhizome should be screened from pest and diseases -Spread in the shed for 1-2 days -Treat rhizome with Captan 50 W P or Hexaconazab @ 3gm/kg seed & keep for ½ hour and sowing may be done. -Spacing for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm - Desirable weight of rhizome-15-25 gm with 2-3buds. -Mulching with dried twigs/paddy straw is recommended. -Complete sowing as early as possible preferably in the upland areas. -Trichoderma harzianum may also be used for seed treatment.
Bhindi/cowpea	Land preparation		-Proper drainage should be given to drain excess water -No sowing should be done except in permissible field condition.
Onion	Harvesting		-Mature onion should be harvested and dried in airy shed.
Tomato	Harvesting		-50% mature/ripen fruits may be harvested and kept in a cooler place.
Water melon			-In early stage the beds and ridges should be free from weeds. In the later stage the vine will automatically cover the space in between the plants. Hence, weeding cum top dressing is recommended
Allium odorosum			-Plantation of <i>Allium odorosum</i> (Maroi nakuppi). -High density planting (1-0-12 nos. of rhizome) per hill is recommended for high yield at a spacing of 6" X 6". -Coriander seed may also be sown in between the Allium Species as an intercrop.
Fruit plants (Banana, Lime, Lemon,	Procurement of planting material		-Jungle cutting and preparation of pit for planting/transplanting of these fruit plants should be started. Pit preparation should be done atleast 1 month ahead of planting.



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



“Gramin Krishi Mausam Seva”

Orange, Kiwi, etc.)			-Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect from dehydration, provision for wholesome and clear water (cool) be maintained properly atleast four times during the day.
		Ranikhet Diseases	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). After that at every two months interval.
Sheep/ Goat	All age groups excepts the young ones		- Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Deworming	-Give Morantel citrate tablet @ 15 mg/kg of body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Hog Cholera	-Vaccination against swine fever must be carried out.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder crops	-Maize should be sown for use as green fodder. -Napier/Guinea grass may be transplanted. -Silage can be prepared.
		Puerperal Fever in Pregnant animals	-50-60 gram of mineral mixture every day.
		Decrease in milk production	-The milk & urine samples must be sent for testing.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability is low.

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



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



“Gramin Krishi Mausam Seva”



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

3rd May, 2016

Imphal West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th to 8th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th April to 2nd May, 2016) The sky was fair to mainly cloudy. Rainfall of 39.7 mm was recorded during past four days. Maximum temperature range observed was 30.3 to 33.0 °C, range of minimum temperature observed was 17.6 – 22.0 °C, mean relative humidity observed in morning and afternoon were 89 % and 58.5 % respectively. The average wind speed range was 3.3 to 7.4 km/hr.	Weather forecast for next five days of Imphal West (4th to 8th May, 2016) Likely to have light rain with thunderstorm upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp. of 28.0-30.0 °C & minimum temp. 15.0-16.0 °C. Relative humidity may reach upto 98 % (max RH) & 38 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be Easterly to Westerly during the next five days.
---	---

Weather Outlook for subsequent 2 days from 8th to 10th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Thunderstorm accompanied with squall likely at isolated places over Manipur on 3rd and 4th May, 2016

Heavy rain likely at isolated places over Manipur on 5th May, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
Early kharif rice	Main field preparation to transplanting		- Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - Transplanting may be done upto mid of April. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		- Land preparation for sowing of soybean/ groundnut/ blackgram may be started. - Apply 10 – 13 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Horticulture Crops			
Ginger/Turmeric	Preparation for sowing		-The seed rhizome should be screened from pest and diseases -Spread in the shed for 1-2 days -Treat rhizome with Captan 50 W P or Hexaconazab @ 3gm/kg seed & keep for ½ hour and sowing may be done. -Spacing for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm - Desirable weight of rhizome-15-25 gm with 2-3buds. -Mulching with dried twigs/paddy straw is recommended. -Complete sowing as early as possible preferably in the upland areas. -Trichoderma harzianum may also be used for seed treatment.
Bhindi/cowpea	Land preparation		-Proper drainage should be given to drain excess water -No sowing should be done except in permissible field condition.
Onion	Harvesting		-Mature onion should be harvested and dried in airy shed.
Tomato	Harvesting		-50% mature/ripen fruits may be harvested and kept in a cooler place.
Water melon			-In early stage the beds and ridges should be free from weeds. In the later stage the vine will automatically cover the space in between the plants. Hence, weeding cum top dressing is recommended
Allium odorosum			-Plantation of <i>Allium odorosum</i> (Maroi nakuppi). -High density planting (1-0-12 nos. of rhizome) per hill is recommended for high yield at a spacing of 6" X 6". -Coriander seed may also be sown in between the Allium Species as an intercrop.
Fruit plants (Banana, Lime, Lemon,	Procurement of planting material		-Jungle cutting and preparation of pit for planting/transplanting of these fruit plants should be started. Pit preparation should be done atleast 1 month ahead of planting.



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



“Gramin Krishi Mausam Seva”

Orange, Kiwi, etc.)			-Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect from dehydration, provision for wholesome and clear water (cool) be maintained properly atleast four times during the day.
		Ranikhet Diseases	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). After that at every two months interval.
Sheep/ Goat	All age groups excepts the young ones		- Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Deworming	-Give Morantel citrate tablet @ 15 mg/kg of body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Hog Cholera	-Vaccination against swine fever must be carried out.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder crops	-Maize should be sown for use as green fodder. -Napier/Guinea grass may be transplanted. -Silage can be prepared.
		Puerperal Fever in Pregnant animals	-50-60 gram of mineral mixture every day.
		Decrease in milk production	-The milk & urine samples must be sent for testing.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability is low.

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



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



“Gramin Krishi Mausam Seva”



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

3rd May, 2016

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 4th to 8th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th April to 2nd May, 2016) The sky was fair to mainly cloudy. Rainfall of 39.7 mm was recorded during past four days. Maximum temperature range observed was 30.3 to 33.0 °C, range of minimum temperature observed was 17.6 – 22.0 °C, mean relative humidity observed in morning and afternoon were 89 % and 58.5 % respectively. The average wind speed range was 3.3 to 7.4 km/hr.	Weather forecast for next five days of Senapati (4th to 8th May, 2016) Likely to have light rain with thunderstorm upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp of 29.0-30.0 °C & minimum temp of 16.0-17.0 °C. Relative humidity may reach upto 97 % (max RH) & 40 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be South easterly to South westerly during the next five days.
---	---

Weather Outlook for subsequent 2 days from 8th to 10th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Thunderstorm accompanied with squall likely at isolated places over Manipur on 3rd and 4th May, 2016

Heavy rain likely at isolated places over Manipur on 5th May, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
Early kharif rice	Main field preparation to transplanting		- Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - Transplanting may be done upto mid of April. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		- Land preparation for sowing of soybean/ groundnut/ blackgram may be started. - Apply 10 – 13 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Horticulture Crops			
Ginger/Turmeric	Preparation for sowing		-The seed rhizome should be screened from pest and diseases -Spread in the shed for 1-2 days -Treat rhizome with Captan 50 W P or Hexaconazab @ 3gm/kg seed & keep for ½ hour and sowing may be done. -Spacing for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm - Desirable weight of rhizome-15-25 gm with 2-3buds. -Mulching with dried twigs/paddy straw is recommended. -Complete sowing as early as possible preferably in the upland areas. -Trichoderma harzianum may also be used for seed treatment.
Bhindi/cowpea	Land preparation		-Proper drainage should be given to drain excess water -No sowing should be done except in permissible field condition.
Onion	Harvesting		-Mature onion should be harvested and dried in airy shed.
Tomato	Harvesting		-50% mature/ripen fruits may be harvested and kept in a cooler place.
Water melon			-In early stage the beds and ridges should be free from weeds. In the later stage the vine will automatically cover the space in between the plants. Hence, weeding cum top dressing is recommended
Allium odorosum			-Plantation of <i>Allium odorosum</i> (Maroi nakuppi). -High density planting (1-0-12 nos. of rhizome) per hill is recommended for high yield at a spacing of 6" X 6". -Coriander seed may also be sown in between the Allium Species as an intercrop.
Fruit plants (Banana, Lime, Lemon,	Procurement of planting material		-Jungle cutting and preparation of pit for planting/transplanting of these fruit plants should be started. Pit preparation should be done atleast 1 month ahead of planting.



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



“Gramin Krishi Mausam Seva”

Orange, Kiwi, etc.)			-Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect from dehydration, provision for wholesome and clear water (cool) be maintained properly atleast four times during the day.
		Ranikhet Diseases	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). After that at every two months interval.
Sheep/ Goat	All age groups excepts the young ones		- Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Deworming	-Give Morantel citrate tablet @ 15 mg/kg of body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Hog Cholera	-Vaccination against swine fever must be carried out.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder crops	-Maize should be sown for use as green fodder. -Napier/Guinea grass may be transplanted. -Silage can be prepared.
		Puerperal Fever in Pregnant animals	-50-60 gram of mineral mixture every day.
		Decrease in milk production	-The milk & urine samples must be sent for testing.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability is low.

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



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



“Gramin Krishi Mausam Seva”



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

3rd May, 2016

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 4th to 8th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th April to 2nd May, 2016) The sky was fair to mainly cloudy. Rainfall of 39.7 mm was recorded during past four days. Maximum temperature range observed was 30.3 to 33.0 °C, range of minimum temperature observed was 17.6 – 22.0 °C, mean relative humidity observed in morning and afternoon were 89 % and 58.5 % respectively. The average wind speed range was 3.3 to 7.4 km/hr.	Weather forecast for next five days of Tamenglong (4th to 8th May, 2016) Likely to have light rain with thunderstorm upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp of 29.0-30.0 ° C & minimum temp of 16.0-17.0 ° C. Relative humidity may reach upto 97 % (max RH) & 40 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be South easterly to South westerly during the next five days.
---	---

Weather Outlook for subsequent 2 days from 8th to 10th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Thunderstorm accompanied with squall likely at isolated places over Manipur on 3rd and 4th May, 2016

Heavy rain likely at isolated places over Manipur on 5th May, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
Early kharif rice	Main field preparation to transplanting		- Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - Transplanting may be done upto mid of April. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		- Land preparation for sowing of soybean/ groundnut/ blackgram may be started. - Apply 10 – 13 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Horticulture Crops			
Ginger/Turmeric	Preparation for sowing		-The seed rhizome should be screened from pest and diseases -Spread in the shed for 1-2 days -Treat rhizome with Captan 50 W P or Hexaconazab @ 3gm/kg seed & keep for ½ hour and sowing may be done. -Spacing for Ginger -20cm X 30cm; turmeric- 20 cm X 45-50cm - Desirable weight of rhizome-15-25 gm with 2-3buds. -Mulching with dried twigs/paddy straw is recommended. -Complete sowing as early as possible preferably in the upland areas. -Trichoderma harzianum may also be used for seed treatment.
Bhindi/cowpea	Land preparation		-Proper drainage should be given to drain excess water -No sowing should be done except in permissible field condition.
Onion	Harvesting		-Mature onion should be harvested and dried in airy shed.
Tomato	Harvesting		-50% mature/ripen fruits may be harvested and kept in a cooler place.
Water melon			-In early stage the beds and ridges should be free from weeds. In the later stage the vine will automatically cover the space in between the plants. Hence, weeding cum top dressing is recommended
Allium odorosum			-Plantation of <i>Allium odorosum</i> (Maroi nakuppi). -High density planting (1-0-12 nos. of rhizome) per hill is recommended for high yield at a spacing of 6" X 6". -Coriander seed may also be sown in between the Allium Species as an intercrop.
Fruit plants (Banana, Lime, Lemon,	Procurement of planting material		-Jungle cutting and preparation of pit for planting/transplanting of these fruit plants should be started. Pit preparation should be done atleast 1 month ahead of planting.



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



“Gramin Krishi Mausam Seva”

Orange, Kiwi, etc.)			-Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect from dehydration, provision for wholesome and clear water (cool) be maintained properly atleast four times during the day.
		Ranikhet Diseases	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). After that at every two months interval.
Sheep/ Goat	All age groups excepts the young ones		- Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Deworming	-Give Morantel citrate tablet @ 15 mg/kg of body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Hog Cholera	-Vaccination against swine fever must be carried out.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder crops	-Maize should be sown for use as green fodder. -Napier/Guinea grass may be transplanted. -Silage can be prepared.
		Puerperal Fever in Pregnant animals	-50-60 gram of mineral mixture every day.
		Decrease in milk production	-The milk & urine samples must be sent for testing.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability is low.

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



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



“Gramin Krishi Mausam Seva”