



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

6th 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 7th to 11th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (3rd to 5th May, 2016)

The sky was fair to overcast. Rainfall of 1.9 mm was recorded during past three days. Maximum temperature range observed was 24.0 to 29.9 °C, range of minimum temperature observed was 17.8 to 20.3 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 58.0 % respectively. The average wind speed range was 3.1 to 3.7 km/hr.

Weather forecast for next five days of Bishnupur (7th to 11th May, 2016)

Likely to have light rain upto Wednesday. Sky will remain variable, with maximum temp. 29.0 to 30.0 °C & minimum temp. 17.0 to 18.0 °C. Relative humidity may reach upto 100 % (max RH) & 30 % (min RH). The average wind speed may be 3-4 km/hr. Wind direction may be South Easterly to North-west Westerly during the next five days.

Weather Outlook for subsequent 2 days from 10th to 12th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Heavy rain likely at isolated places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
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			
Tomato	Harvesting		-50% mature/ripen fruits may be harvested and kept in a cooler place.
		Mite	- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
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	Sowing		-Proper drainage should be given to drain excess water -Sowing should be done in permissible field condition.
Water melon	Flowering to fruiting		Chances of cracking of fruit are high with rains after a dry spell (with high temperature). To avoid cracking cover the fruit with leaves/ dry twigs.
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, Orange, Kiwi, etc.)	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. -Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	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.



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Turkey/ Duck)		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.
		Endoparasites	- Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		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



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MANIPUR BULLETIN

6th May, 2016

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Significant past weather for the preceding bi-weekly of Imphal - West (3rd to 5th May, 2016) The sky was fair to overcast. Rainfall of 1.9 mm was recorded during past three days. Maximum temperature range observed was 24.0 to 29.9 °C, range of minimum temperature observed was 17.8 to 20.3 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 58.0 % respectively. The average wind speed range was 3.1 to 3.7 km/hr.	Weather forecast for next five days of Chandel (7th to 11th May, 2016) Likely to have light rain upto Wednesday. Sky will remain variable to mainly cloudy, with maximum temp. 29.0 to 30.0 °C & minimum temp. 18.0 to 19.0 °C. Relative humidity may reach upto 100 % (max RH) & 40 % (min RH). The average wind speed may be 4-5 km/hr. Wind direction may be Westerly to North Westerly during the next five days.
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Weather Outlook for subsequent 2 days from 10th to 12th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Heavy rain likely at isolated places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
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			
Tomato	Harvesting		-50% mature/ripen fruits may be harvested and kept in a cooler place.
		Mite	- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
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	Sowing		-Proper drainage should be given to drain excess water -Sowing should be done in permissible field condition.
Water melon	Flowering to fruiting		Chances of cracking of fruit are high with rains after a dry spell (with high temperature). To avoid cracking cover the fruit with leaves/ dry twigs.
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, Orange, Kiwi, etc.)	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. -Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	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.



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Turkey/ Duck)		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.
		Endoparasites	- Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		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.

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Weather Outlook for subsequent 2 days from 10th to 12th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Heavy rain likely at isolated places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
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			
Tomato	Harvesting	Mite	-50% mature/ripen fruits may be harvested and kept in a cooler place. - To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
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	Sowing		-Proper drainage should be given to drain excess water -Sowing should be done in permissible field condition.
Water melon	Flowering to fruiting		Chances of cracking of fruit are high with rains after a dry spell (with high temperature). To avoid cracking cover the fruit with leaves/ dry twigs.
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, Orange, Kiwi, etc.)	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. -Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	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.



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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.
		Endoparasites	- Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		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.

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Weather Outlook for subsequent 2 days from 10th to 12th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Heavy rain likely at isolated places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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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.
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Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	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.



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		Hog Cholera	-Vaccination against swine fever must be carried out.
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		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”

MANIPUR BULLETIN

6th 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 7th to 11th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (3rd to 5th May, 2016)

The sky was fair to overcast. Rainfall of 1.9 mm was recorded during past three days. Maximum temperature range observed was 24.0 to 29.9 °C, range of minimum temperature observed was 17.8 to 20.3 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 58.0 % respectively. The average wind speed range was 3.1 to 3.7 km/hr.

Weather forecast for next five days of Imphal West (7th to 11th May, 2016)

Likely to have light rain upto Wednesday. Sky will remain fair to variable, with maximum temp. 28.0 to 33.0 °C & minimum temp. 18.0 to 20.0 °C. Relative humidity may reach upto 95 % (max RH) & 30 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North Easterly to North Westerly during the next five days.

Weather Outlook for subsequent 2 days from 10th to 12th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Heavy rain likely at isolated places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
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			
Tomato	Harvesting		-50% mature/ripen fruits may be harvested and kept in a cooler place.
		Mite	- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
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	Sowing		-Proper drainage should be given to drain excess water -Sowing should be done in permissible field condition.
Water melon	Flowering to fruiting		Chances of cracking of fruit are high with rains after a dry spell (with high temperature). To avoid cracking cover the fruit with leaves/ dry twigs.
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, Orange, Kiwi, etc.)	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. -Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	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.



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



“Gramin Krishi Mausam Seva”

Turkey/ Duck)		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.
		Endoparasites	- Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		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”

MANIPUR BULLETIN

6th 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 7th to 11th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (3rd to 5th May, 2016) The sky was fair to overcast. Rainfall of 1.9 mm was recorded during past three days. Maximum temperature range observed was 24.0 to 29.9 °C, range of minimum temperature observed was 17.8 to 20.3 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 58.0 % respectively. The average wind speed range was 3.1 to 3.7 km/hr.	Weather forecast for next five days of Senapati (7th to 11th May, 2016) Likely to be sunny upto Wednesday. Sky will remain fair, with maximum temp. 33.0 to 34.0 °C & minimum temp. 20.0 to 22.0 °C. Relative humidity may reach upto 93 % (max RH) & 31 % (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.
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Weather Outlook for subsequent 2 days from 10th to 12th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Heavy rain likely at isolated places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
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			
Tomato	Harvesting		-50% mature/ripen fruits may be harvested and kept in a cooler place.
		Mite	- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
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	Sowing		-Proper drainage should be given to drain excess water -Sowing should be done in permissible field condition.
Water melon	Flowering to fruiting		Chances of cracking of fruit are high with rains after a dry spell (with high temperature). To avoid cracking cover the fruit with leaves/ dry twigs.
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, Orange, Kiwi, etc.)	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. -Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	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.



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



“Gramin Krishi Mausam Seva”

Turkey/ Duck)		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.
		Endoparasites	- Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		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”

MANIPUR BULLETIN

6th 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 7th to 11th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (3rd to 5th May, 2016) The sky was fair to overcast. Rainfall of 1.9 mm was recorded during past three days. Maximum temperature range observed was 24.0 to 29.9 °C, range of minimum temperature observed was 17.8 to 20.3 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 58.0 % respectively. The average wind speed range was 3.1 to 3.7 km/hr.	Weather forecast for next five days of Tamenglong (7th to 11th May, 2016) Likely to have light rain upto Wednesday. Sky will remain variable, with maximum temp. 29.0 to 32.0 °C & minimum temp. 18.0 to 19.0 °C. Relative humidity may reach upto 92 % (max RH) & 31 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North-east Easterly to Westerly during the next five days.
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Weather Outlook for subsequent 2 days from 10th to 12th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Heavy rain likely at isolated places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
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			
Tomato	Harvesting		-50% mature/ripen fruits may be harvested and kept in a cooler place.
		Mite	- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
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	Sowing		-Proper drainage should be given to drain excess water -Sowing should be done in permissible field condition.
Water melon	Flowering to fruiting		Chances of cracking of fruit are high with rains after a dry spell (with high temperature). To avoid cracking cover the fruit with leaves/ dry twigs.
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, Orange, Kiwi, etc.)	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. -Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	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.



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



“Gramin Krishi Mausam Seva”

Turkey/ Duck)		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.
		Endoparasites	- Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		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”

MANIPUR BULLETIN

6th 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 7th to 11th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (3rd to 5th May, 2016) The sky was fair to overcast. Rainfall of 1.9 mm was recorded during past three days. Maximum temperature range observed was 24.0 to 29.9 °C, range of minimum temperature observed was 17.8 to 20.3 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 58.0 % respectively. The average wind speed range was 3.1 to 3.7 km/hr.	Weather forecast for next five days of Thoubal (7th to 11th May, 2016) Likely to have light rain upto Wednesday. Sky will remain variable to mainly cloudy, with maximum temp. 29.0 to 30.0 °C & minimum temp. 18.0 to 19.0 °C. Relative humidity may reach upto 89 % (max RH) & 29 % (min RH). The average wind speed may be 4-6 km/hr. Wind direction may be South Easterly to North Westerly during the next five days.
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Weather Outlook for subsequent 2 days from 10th to 12th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Heavy rain likely at isolated places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
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			
Tomato	Harvesting	Mite	-50% mature/ripen fruits may be harvested and kept in a cooler place. - To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
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	Sowing		-Proper drainage should be given to drain excess water -Sowing should be done in permissible field condition.
Water melon	Flowering to fruiting		Chances of cracking of fruit are high with rains after a dry spell (with high temperature). To avoid cracking cover the fruit with leaves/ dry twigs.
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, Orange, Kiwi, etc.)	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. -Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	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.



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



“Gramin Krishi Mausam Seva”

Turkey/ Duck)		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.
		Endoparasites	- Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		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”

MANIPUR BULLETIN

6th 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 7th to 11th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (3rd to 5th May, 2016) The sky was fair to overcast. Rainfall of 1.9 mm was recorded during past three days. Maximum temperature range observed was 24.0 to 29.9 °C, range of minimum temperature observed was 17.8 to 20.3 °C, mean relative humidity observed in morning and afternoon were 89.3 % and 58.0 % respectively. The average wind speed range was 3.1 to 3.7 km/hr.	Weather forecast for next five days of Ukhrul (7th to 11th May, 2016) Likely to have light rain upto Wednesday. Sky will remain variable to mainly cloudy, with maximum temp. 28.0 to 30.0 °C & minimum temp. 18.0 to 20.0 °C. Relative humidity may reach upto 77 % (max RH) & 26 % (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.
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Weather Outlook for subsequent 2 days from 10th to 12th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Weather Warning during next 5 days

Heavy rain likely at isolated places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif rice			-land preparation for sowing kharif rice may be started.
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			
Tomato	Harvesting	Mite	-50% mature/ripen fruits may be harvested and kept in a cooler place. - To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
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	Sowing		-Proper drainage should be given to drain excess water -Sowing should be done in permissible field condition.
Water melon	Flowering to fruiting		Chances of cracking of fruit are high with rains after a dry spell (with high temperature). To avoid cracking cover the fruit with leaves/ dry twigs.
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, Orange, Kiwi, etc.)	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. -Procure quality planting material
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	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.



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“Gramin Krishi Mausam Seva”

Turkey/ Duck)		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.
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