



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

10th 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 11th to 15th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th May, 2016) The sky was fair to mainly cloudy. Rainfall of 0.0 mm was recorded during past four days. Maximum temperature range observed was 28.8 to 31.3 °C, range of minimum temperature observed was 20.5 to 22.0 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 61.0 % respectively. The average wind speed range was 4.5 to 6.6 km/hr.	Weather forecast for next five days of Imphal West (11th to 15th May, 2016) Likely to have light rain upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp. 31.0 to 32.0 °C & minimum temp. 21.0 to 23.0 °C. Relative humidity may reach upto 92 % (max RH) & 34 % (min RH). The average wind speed may be 2-3 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 15th to 17th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering		- After rains, apply 30.0 kg Urea/ha at 25 to 30 days after transplanting, after complete removal of water. - Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. Drain out excess water accumulated due to rain.
Soybean	Sowing		Sowing may be done at spacing of 45 cm x 30 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335.
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.
Blackgram	Land preparation to sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @ 3 kg/ha.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- After the wet spell, harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew specially in damped or moist area. - Avoid water logging in the field.
Tomato/ Chilli	Fruiting to harvest		- Avoid water logging in the crop field. - Retain mature and healthy fruits for seeds.
		Fruit rot	Avoid water logging and after rains spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.
Ginger/Turmeric	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.
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.



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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/ 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.
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

10th 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 11th to 15th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th May, 2016) The sky was fair to mainly cloudy. Rainfall of 0.0 mm was recorded during past four days. Maximum temperature range observed was 28.8 to 31.3 °C, range of minimum temperature observed was 20.5 to 22.0 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 61.0 % respectively. The average wind speed range was 4.5 to 6.6 km/hr.	Weather forecast for next five days of Senapati (11th to 15th May, 2016) Likely to have light rain upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp. 31.0 to 32.0 °C & minimum temp. 21.0 to 23.0 °C. Relative humidity may reach upto 89 % (max RH) & 33 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be North North-Easterly to North Westerly during the next five days.
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Weather Outlook for subsequent 2 days from 15th to 17th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering		- After rains, apply 30.0 kg Urea/ha at 25 to 30 days after transplanting, after complete removal of water. - Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. Drain out excess water accumulated due to rain.
Soybean	Sowing		Sowing may be done at spacing of 45 cm x 30 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335.
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.
Blackgram	Land preparation to sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @ 3 kg/ha.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- After the wet spell, harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew specially in damped or moist area. - Avoid water logging in the field.
Tomato/ Chilli	Fruiting to harvest		- Avoid water logging in the crop field. - Retain mature and healthy fruits for seeds.
		Fruit rot	Avoid water logging and after rains spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.
Ginger/Turmeric	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	Sowing		-Proper drainage should be given to drain excess water -Sowing should be done in permissible field condition.
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.



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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/ 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.
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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MANIPUR BULLETIN

10th 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 11th to 15th May, 2016 as below:

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Weather Outlook for subsequent 2 days from 15th to 17th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering		- After rains, apply 30.0 kg Urea/ha at 25 to 30 days after transplanting, after complete removal of water. - Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. Drain out excess water accumulated due to rain.
Soybean	Sowing		Sowing may be done at spacing of 45 cm x 30 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335.
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.
Blackgram	Land preparation to sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @ 3 kg/ha.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- After the wet spell, harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew specially in damped or moist area. - Avoid water logging in the field.
Tomato/ Chilli	Fruiting to harvest		- Avoid water logging in the crop field. - Retain mature and healthy fruits for seeds.
		Fruit rot	Avoid water logging and after rains spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.
Ginger/Turmeric	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.
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.



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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/ 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.
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.
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		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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		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

10th 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 11th to 15th May, 2016 as below:

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Weather Outlook for subsequent 2 days from 15th to 17th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering		- After rains, apply 30.0 kg Urea/ha at 25 to 30 days after transplanting, after complete removal of water. - Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. Drain out excess water accumulated due to rain.
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Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.
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Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- After the wet spell, harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew specially in damped or moist area. - Avoid water logging in the field.
Tomato/ Chilli	Fruiting to harvest		- Avoid water logging in the crop field. - Retain mature and healthy fruits for seeds.
		Fruit rot	Avoid water logging and after rains spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.
Ginger/Turmeric	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.
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.



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



“Gramin Krishi Mausam Seva”

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/ 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.
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

10th 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 11th to 15th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th May, 2016) The sky was fair to mainly cloudy. Rainfall of 0.0 mm was recorded during past four days. Maximum temperature range observed was 28.8 to 31.3 °C, range of minimum temperature observed was 20.5 to 22.0 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 61.0 % respectively. The average wind speed range was 4.5 to 6.6 km/hr.	Weather forecast for next five days of Ukhrul (11th to 15th May, 2016) Likely to have light rain upto Sunday. Sky will remain mainly cloudy, with maximum temp. 32.0 to 33.0 °C & minimum temp. 19.0 to 20.0 °C. Relative humidity may reach upto 82 % (max RH) & 29 % (min RH). The average wind speed may be 3-4 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 15th to 17th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering		- After rains, apply 30.0 kg Urea/ha at 25 to 30 days after transplanting, after complete removal of water. - Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. Drain out excess water accumulated due to rain.
Soybean	Sowing		Sowing may be done at spacing of 45 cm x 30 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335.
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.
Blackgram	Land preparation to sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @ 3 kg/ha.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- After the wet spell, harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew specially in damped or moist area. - Avoid water logging in the field.
Tomato/ Chilli	Fruiting to harvest		- Avoid water logging in the crop field. - Retain mature and healthy fruits for seeds.
		Fruit rot	Avoid water logging and after rains spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.
Ginger/Turmeric	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.
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.



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



“Gramin Krishi Mausam Seva”

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/ 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.
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

10th 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 11th to 15th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th May, 2016) The sky was fair to mainly cloudy. Rainfall of 0.0 mm was recorded during past four days. Maximum temperature range observed was 28.8 to 31.3 °C, range of minimum temperature observed was 20.5 to 22.0 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 61.0 % respectively. The average wind speed range was 4.5 to 6.6 km/hr.	Weather forecast for next five days of Bishnupur (11th to 15th May, 2016) Likely to have light rain upto Sunday. Sky will remain mainly cloudy, with maximum temp. 31.0 to 32.0 °C & minimum temp. 21.0 to 22.0 °C. Relative humidity may reach upto 91 % (max RH) & 37 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be South Easterly to North west Westerly during the next five days.
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Weather Outlook for subsequent 2 days from 15th to 17th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering		- After rains, apply 30.0 kg Urea/ha at 25 to 30 days after transplanting, after complete removal of water. - Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. Drain out excess water accumulated due to rain.
Soybean	Sowing		Sowing may be done at spacing of 45 cm x 30 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335.
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.
Blackgram	Land preparation to sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- After the wet spell, harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademiton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew specially in damped or moist area. - Avoid water logging in the field.
Tomato/ Chilli	Fruiting to harvest		- Avoid water logging in the crop field. - Retain mature and healthy fruits for seeds.
		Fruit rot	Avoid water logging and after rains spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.
Ginger/Turmeric	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.
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.



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



“Gramin Krishi Mausam Seva”

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/ 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.
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

10th 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 11th to 15th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th May, 2016) The sky was fair to mainly cloudy. Rainfall of 0.0 mm was recorded during past four days. Maximum temperature range observed was 28.8 to 31.3 °C, range of minimum temperature observed was 20.5 to 22.0 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 61.0 % respectively. The average wind speed range was 4.5 to 6.6 km/hr.	Weather forecast for next five days of Chandel (11th to 15th May, 2016) Likely to have light rain upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp. 31.0 to 32.0 °C & minimum temp. 21.0 to 23.0 °C. Relative humidity may reach upto 84 % (max RH) & 31 % (min RH). The average wind speed may be 4-5 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 15th to 17th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering		<ul style="list-style-type: none"> - After rains, apply 30.0 kg Urea/ha at 25 to 30 days after transplanting, after complete removal of water. - Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. Drain out excess water accumulated due to rain.
Soybean	Sowing		Sowing may be done at spacing of 45 cm x 30 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335.
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.
Blackgram	Land preparation to sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @ 3 kg/ha.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	<ul style="list-style-type: none"> - After the wet spell, harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew specially in damped or moist area. - Avoid water logging in the field.
Tomato/ Chilli	Fruiting to harvest		<ul style="list-style-type: none"> - Avoid water logging in the crop field. - Retain mature and healthy fruits for seeds.
		Fruit rot	Avoid water logging and after rains spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.
Ginger/Turmeric	Sowing		<ul style="list-style-type: none"> -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	Sowing		<ul style="list-style-type: none"> -Proper drainage should be given to drain excess water -Sowing should be done in permissible field condition.
Allium odorosum			<ul style="list-style-type: none"> -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.



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



“Gramin Krishi Mausam Seva”

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/ 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.
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

10th 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 11th to 15th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th May, 2016) The sky was fair to mainly cloudy. Rainfall of 0.0 mm was recorded during past four days. Maximum temperature range observed was 28.8 to 31.3 °C, range of minimum temperature observed was 20.5 to 22.0 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 61.0 % respectively. The average wind speed range was 4.5 to 6.6 km/hr.	Weather forecast for next five days of Churachandpur (11th to 15th May, 2016) Likely to have light rain upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp. 32.0 to 33.0 °C & minimum temp. 20.0 to 22.0 °C. Relative humidity may reach upto 93 % (max RH) & 41 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be South to South Westerly during the next five days.
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Weather Outlook for subsequent 2 days from 15th to 17th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering		- After rains, apply 30.0 kg Urea/ha at 25 to 30 days after transplanting, after complete removal of water. - Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. Drain out excess water accumulated due to rain.
Soybean	Sowing		Sowing may be done at spacing of 45 cm x 30 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335.
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.
Blackgram	Land preparation to sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @ 3 kg/ha.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- After the wet spell, harvest mature fruits then prophylactic spray of Mirador (Azoxytobin 23%) @ 1ml/ lit of water or Bayleton (Triademiton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew specially in damped or moist area. - Avoid water logging in the field.
Tomato/ Chilli	Fruiting to harvest		- Avoid water logging in the crop field. - Retain mature and healthy fruits for seeds.
		Fruit rot	Avoid water logging and after rains spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxytobin 23%) @ 1ml/ lit of water.
Ginger/Turmeric	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.
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.



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“Gramin Krishi Mausam Seva”

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/ 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.
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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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

10th 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 11th to 15th May, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th May, 2016) The sky was fair to mainly cloudy. Rainfall of 0.0 mm was recorded during past four days. Maximum temperature range observed was 28.8 to 31.3 °C, range of minimum temperature observed was 20.5 to 22.0 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 61.0 % respectively. The average wind speed range was 4.5 to 6.6 km/hr.	Weather forecast for next five days of Imphal East (11th to 15th May, 2016) Likely to have light rain upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp. 31.0 to 32.0 °C & minimum temp. 20.0 to 21.0 °C. Relative humidity may reach upto 91 % (max RH) & 34 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be North Easterly to North North-Westerly during the next five days.
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Weather Outlook for subsequent 2 days from 15th to 17th May, 2016

Rain/thunderstorm likely at many places over northeastern states

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering		- After rains, apply 30.0 kg Urea/ha at 25 to 30 days after transplanting, after complete removal of water. - Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. Drain out excess water accumulated due to rain.
Soybean	Sowing		Sowing may be done at spacing of 45 cm x 30 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335.
Groundnut	Sowing		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.
Blackgram	Land preparation to sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @ 3 kg/ha.
Rabi Maize	Cob formation	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Horticulture Crops			
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- After the wet spell, harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew specially in damped or moist area. - Avoid water logging in the field.
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