



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

5th April, 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 6th to 10th April, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th April, 2016) The sky was variable sky to overcast. The Rainfall of 32.3 mm was recorded during past four days. Maximum temperature range observed was 21.3– 28.3 °C, range of minimum temperature observed was 10.2 – 16.5 °C, mean relative humidity observed in morning and afternoon were 997 % and 56.0 % respectively. The average wind speed range was 2.7 to 4.8 km/hr.	Weather forecast for next five days of Senapati (6th to 10th April, 2016) There may be rain during the next five days. Sky will remain fair to mainly cloudy, with maximum temp. of 27.0 – 30.0 °C & minimum temp. 15.0 – 17.0 °C. Relative humidity may reach upto 95% (max RH) & 34 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be South Westerly to Westerly during the next five days.
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Weather Outlook for subsequent 2 days from 10th to 12th April, 2016

Rain/thunderstorm at many places very likely over northeastern states

Weather Warning during next 5 days

Heavy rain and thunderstorm accompanied with squall likely at isolated places over Manipur on 6th April, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Main field preparation to transplanting		- At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha. - Seedlings may be uprooted at 30-45 days after sowing for transplanting. Seedlings may be transplanted immediately after uprooting to avoid transplanting shock. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Field Pea/ Lentil	Flowering	Powdery Mildew	- Spray Bayleton (Triademofon 25%WP) @ 7.5 g/ pump (15litre capacity) or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.
Horticulture Crops			
Tomato	Fruit borer		-Prophylactic measure to protect from Early blight of Tomato is recommended. D. M-45 (Mencozeb) @ 2gm/l may be sprayed.
Water melon			-In early stage the beds and ridges should be free from weeds. In the later stage the vine will automatically cover the space in between the plants. Hence, weeding cum top dressing is recommended
Allium odorosum			-Plantation of Allium odorosum (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
Ginger/Turmeric	Land preparation		-Land preparation for plantation of Ginger/turmeric may be started. -Upland areas are more suitable for the crop. -Ginger rhizome seeds affected by rhizome rot should be discarded.
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Confidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm.



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			- Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect birds of all age groups from inclement weather, there should be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		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	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
		Enterotoxaemia	- If the Lambs and Kids in particular should be given the caccination to prevent Enterotoxaemia.
		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	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
		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.
		Johnes disease & Sterility	Immediate proper treatment for the disease should be provided.
		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

5th April, 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 6th to 10th April, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th April, 2016)

The sky was variable sky to overcast. The Rainfall of 32.3 mm was recorded during past four days. Maximum temperature range observed was 21.3– 28.3 °C, range of minimum temperature observed was 10.2 – 16.5 °C, mean relative humidity observed in morning and afternoon were 997 % and 56.0 % respectively. The average wind speed range was 2.7 to 4.8 km/hr.

Weather forecast for next five days of Tamenglong (6th to 10th April, 2016)

There may be rain during the next five days. Sky will remain fair to mainly cloudy, with maximum temp. of 29.0 – 31.0 °C & minimum temp. 15.0 – 17.0 °C. Relative humidity may reach upto 97% (max RH) & 41 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be South south Westerly to South west Westerly during the next five days.

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

Rain/thunderstorm at many places very likely over northeastern states

Weather Warning during next 5 days

Heavy rain and thunderstorm accompanied with squall likely at isolated places over Manipur on 6th April, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Main field preparation to transplanting		- At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha. - Seedlings may be uprooted at 30-45 days after sowing for transplanting. Seedlings may be transplanted immediately after uprooting to avoid transplanting shock. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Field Pea/ Lentil	Flowering	Powdery Mildew	- Spray Bayleton (Triademofon 25% WP) @ 7.5 g/ pump (15litre capacity) or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.
Horticulture Crops			
Tomato	Fruit borer		-Prophylactic measure to protect from Early blight of Tomato is recommended. D. M-45 (Mencozeb) @ 2gm/l may be sprayed.
Water melon			-In early stage the beds and ridges should be free from weeds. In the later stage the vine will automatically cover the space in between the plants. Hence, weeding cum top dressing is recommended
Allium odorosum			-Plantation of Allium odorosum (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
Ginger/Turmeric	Land preparation		-Land preparation for plantation of Ginger/turmeric may be started. -Upland areas are more suitable for the crop. -Ginger rhizome seeds affected by rhizome rot should be discarded.
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Confidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm.



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Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect birds of all age groups from inclement weather, there should be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		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	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
		Enterotoxaemia	- If the Lambs and Kids in particular should be given the caccination to prevent Enterotoxaemia.
		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	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
		Deworming	-Give Morantel citrate tablet @ 15 mg/kg of body weight.
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		Johnes disease & Sterility	Immediate proper treatment for the disease should be provided.
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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.



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Thoubal

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Weather forecast for next five days of Thoubal (6th to 10th April, 2016)

There may be rain during the next five days. Sky will remain fair to mainly cloudy, with maximum temp. of 28.0 – 32.0 °C & minimum temp. 15.0 – 17.0 °C. Relative humidity may reach upto 94% (max RH) & 32 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be South west Westerly to Westerly during the next five days.

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

Rain/thunderstorm at many places very likely over northeastern states

Weather Warning during next 5 days

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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
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Type of Farming	Stage	Management	Agro-metrological advisories
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Allium odorosum			-Plantation of Allium odorosum (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
Ginger/Turmeric	Land preparation		-Land preparation for plantation of Ginger/turmeric may be started. -Upland areas are more suitable for the crop. -Ginger rhizome seeds affected by rhizome rot should be discarded.
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Confidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm.



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



“Gramin Krishi Mausam Seva”

			- Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect birds of all age groups from inclement weather, there should be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		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	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
		Enterotoxaemia	- If the Lambs and Kids in particular should be given the caccination to prevent Enterotoxaemia.
		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	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
		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.
		Johnes disease & Sterility	Immediate proper treatment for the disease should be provided.
		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.



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



“Gramin Krishi Mausam Seva”



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

5th April, 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 6th to 10th April, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th April, 2016) The sky was variable sky to overcast. The Rainfall of 32.3 mm was recorded during past four days. Maximum temperature range observed was 21.3– 28.3 °C, range of minimum temperature observed was 10.2 – 16.5 °C, mean relative humidity observed in morning and afternoon were 997 % and 56.0 % respectively. The average wind speed range was 2.7 to 4.8 km/hr.	Weather forecast for next five days of Bishnupur (6th to 10th April, 2016) There may be rain during the next five days. Sky will remain fair to mainly cloudy, with maximum temp. of 28.0 – 31.0 °C & minimum temp. 16.0 – 18.0 °C. Relative humidity may reach upto 93% (max RH) & 36 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be South Westerly to South west Westerly during the next five days.
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Weather Outlook for subsequent 2 days from 10th to 12th April, 2016

Rain/thunderstorm at many places very likely over northeastern states

Weather Warning during next 5 days

Heavy rain and thunderstorm accompanied with squall likely at isolated places over Manipur on 6th April, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Main field preparation to transplanting		- At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha. - Seedlings may be uprooted at 30-45 days after sowing for transplanting. Seedlings may be transplanted immediately after uprooting to avoid transplanting shock. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Field Pea/ Lentil	Flowering	Powdery Mildew	- Spray Bayleton (Triademofon 25%WP) @ 7.5 g/ pump (15litre capacity) or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.
Horticulture Crops			
Tomato	Fruit borer		-Prophylactic measure to protect from Early blight of Tomato is recommended. D. M-45 (Mencozeb) @ 2gm/l may be sprayed.
Water melon			-In early stage the beds and ridges should be free from weeds. In the later stage the vine will automatically cover the space in between the plants. Hence, weeding cum top dressing is recommended
Allium odorosum			-Plantation of Allium odorosum (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
Ginger/Turmeric	Land preparation		-Land preparation for plantation of Ginger/turmeric may be started. -Upland areas are more suitable for the crop. -Ginger rhizome seeds affected by rhizome rot should be discarded.
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Confidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm.



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



“Gramin Krishi Mausam Seva”

			- Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect birds of all age groups from inclement weather, there should be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		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	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
		Enterotoxaemia	- If the Lambs and Kids in particular should be given the caccination to prevent Enterotoxaemia.
		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	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
		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.
		Johnes disease & Sterility	Immediate proper treatment for the disease should be provided.
		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.



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



“Gramin Krishi Mausam Seva”



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

5th April, 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 6th to 10th April, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th April, 2016)

The sky was variable sky to overcast. The Rainfall of 32.3 mm was recorded during past four days. Maximum temperature range observed was 21.3– 28.3 °C, range of minimum temperature observed was 10.2 – 16.5 °C, mean relative humidity observed in morning and afternoon were 997 % and 56.0 % respectively. The average wind speed range was 2.7 to 4.8 km/hr.

Weather forecast for next five days of Chandel (6th to 10th April, 2016)

There may be rain during the next five days. Sky will remain fair to mainly cloudy, with maximum temp. of 30.0 – 31.0 °C & minimum temp. 15.0 – 16.0 °C. Relative humidity may reach upto 90% (max RH) & 28 % (min RH). The average wind speed may be 3-4 km/hr. Wind direction may be Westerly to North west Westerly during the next five days.

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

Rain/thunderstorm at many places very likely over northeastern states

Weather Warning during next 5 days

Heavy rain and thunderstorm accompanied with squall likely at isolated places over Manipur on 6th April, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Main field preparation to transplanting		- At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha. - Seedlings may be uprooted at 30-45 days after sowing for transplanting. Seedlings may be transplanted immediately after uprooting to avoid transplanting shock. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Field Pea/ Lentil	Flowering	Powdery Mildew	- Spray Bayleton (Triademofon 25% WP) @ 7.5 g/ pump (15litre capacity) or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.
Horticulture Crops			
Tomato	Fruit borer		-Prophylactic measure to protect from Early blight of Tomato is recommended. D. M-45 (Mencozeb) @ 2gm/l may be sprayed.
Water melon			-In early stage the beds and ridges should be free from weeds. In the later stage the vine will automatically cover the space in between the plants. Hence, weeding cum top dressing is recommended
Allium odorosum			-Plantation of Allium odorosum (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
Ginger/Turmeric	Land preparation		-Land preparation for plantation of Ginger/turmeric may be started. -Upland areas are more suitable for the crop. -Ginger rhizome seeds affected by rhizome rot should be discarded.
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Confidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm.



**ICAR Research Complex for N.E.H. Region
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“Gramin Krishi Mausam Seva”

			- Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect birds of all age groups from inclement weather, there should be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		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	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
		Enterotoxaemia	- If the Lambs and Kids in particular should be given the caccination to prevent Enterotoxaemia.
		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	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
		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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		Johnes disease & Sterility	Immediate proper treatment for the disease should be provided.
		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 Centre, Lamphelpat, Imphal - 795 004



“Gramin Krishi Mausam Seva”



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

5th April, 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 6th to 10th April, 2016 as below:

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

Rain/thunderstorm at many places very likely over northeastern states

Weather Warning during next 5 days

Heavy rain and thunderstorm accompanied with squall likely at isolated places over Manipur on 6th April, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Main field preparation to transplanting		- At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha. - Seedlings may be uprooted at 30-45 days after sowing for transplanting. Seedlings may be transplanted immediately after uprooting to avoid transplanting shock. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Field Pea/ Lentil	Flowering	Powdery Mildew	- Spray Bayleton (Triademofon 25%WP) @ 7.5 g/ pump (15litre capacity) or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.
Horticulture Crops			
Tomato	Fruit borer		-Prophylactic measure to protect from Early blight of Tomato is recommended. D. M-45 (Mencozeb) @ 2gm/l may be sprayed.
Water melon			-In early stage the beds and ridges should be free from weeds. In the later stage the vine will automatically cover the space in between the plants. Hence, weeding cum top dressing is recommended
Allium odorosum			-Plantation of Allium odorosum (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
Ginger/Turmeric	Land preparation		-Land preparation for plantation of Ginger/turmeric may be started. -Upland areas are more suitable for the crop. -Ginger rhizome seeds affected by rhizome rot should be discarded.
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Confidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm.



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



“Gramin Krishi Mausam Seva”

			- Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect birds of all age groups from inclement weather, there should be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		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	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
		Enterotoxaemia	- If the Lambs and Kids in particular should be given the caccination to prevent Enterotoxaemia.
		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	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
		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.
		Johnes disease & Sterility	Immediate proper treatment for the disease should be provided.
		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.



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



“Gramin Krishi Mausam Seva”



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

5th April, 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 6th to 10th April, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th April, 2016)

The sky was variable sky to overcast. The Rainfall of 32.3 mm was recorded during past four days. Maximum temperature range observed was 21.3– 28.3 °C, range of minimum temperature observed was 10.2 – 16.5 °C, mean relative humidity observed in morning and afternoon were 997 % and 56.0 % respectively. The average wind speed range was 2.7 to 4.8 km/hr.

Weather forecast for next five days of Imphal West (6th to 10th April, 2016)

There may be rain during the next five days. Sky will remain fair to variable sky, with maximum temp. of 27.0 – 31.0 °C & minimum temp. 15.0 – 17.0 °C. Relative humidity may reach upto 98% (max RH) & 39 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be South Westerly to Westerly during the next five days.

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

Rain/thunderstorm at many places very likely over northeastern states

Weather Warning during next 5 days

Heavy rain and thunderstorm accompanied with squall likely at isolated places over Manipur on 6th April, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Main field preparation to transplanting		- At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha. - Seedlings may be uprooted at 30-45 days after sowing for transplanting. Seedlings may be transplanted immediately after uprooting to avoid transplanting shock. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Field Pea/ Lentil	Flowering	Powdery Mildew	- Spray Bayleton (Triademofon 25% WP) @ 7.5 g/ pump (15litre capacity) or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.
Horticulture Crops			
Tomato	Fruit borer		-Prophylactic measure to protect from Early blight of Tomato is recommended. D. M-45 (Mencozeb) @ 2gm/l may be sprayed.
Water melon			-In early stage the beds and ridges should be free from weeds. In the later stage the vine will automatically cover the space in between the plants. Hence, weeding cum top dressing is recommended
Allium odorosum			-Plantation of Allium odorosum (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
Ginger/Turmeric	Land preparation		-Land preparation for plantation of Ginger/turmeric may be started. -Upland areas are more suitable for the crop. -Ginger rhizome seeds affected by rhizome rot should be discarded.
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Confidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm.



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“Gramin Krishi Mausam Seva”

			- Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect birds of all age groups from inclement weather, there should be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		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	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
		Enterotoxaemia	- If the Lambs and Kids in particular should be given the caccination to prevent Enterotoxaemia.
		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	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
		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.
		Johnes disease & Sterility	Immediate proper treatment for the disease should be provided.
		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

5th April, 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 6th to 10th April, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th April, 2016)

The sky was variable sky to overcast. The Rainfall of 32.3 mm was recorded during past four days. Maximum temperature range observed was 21.3– 28.3 °C, range of minimum temperature observed was 10.2 – 16.5 °C, mean relative humidity observed in morning and afternoon were 997 % and 56.0 % respectively. The average wind speed range was 2.7 to 4.8 km/hr.

Weather forecast for next five days of Imphal East (6th to 10th April, 2016)

There may be rain during the next five days. Sky will remain fair to mainly cloudy, with maximum temp. of 27.0 – 30.0 °C & minimum temp. 15.0 – 17.0 °C. Relative humidity may reach upto 98% (max RH) & 36 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be South west Westerly to Westerly during the next five days.

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

Rain/thunderstorm at many places very likely over northeastern states

Weather Warning during next 5 days

Heavy rain and thunderstorm accompanied with squall likely at isolated places over Manipur on 6th April, 2016

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Early kharif rice	Main field preparation to transplanting		- At the time of final leveling, apply 97 kg Urea, 87Kg DAP and 45 Kg MOP per ha. - Seedlings may be uprooted at 30-45 days after sowing for transplanting. Seedlings may be transplanted immediately after uprooting to avoid transplanting shock. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. - To enhance the establishment of transplanted seedlings, water depth of 2-3cm should be maintained in the field after transplanting then it may be increased gradually.
Field Pea/ Lentil	Flowering	Powdery Mildew	- Spray Bayleton (Triademofon 25% WP) @ 7.5 g/ pump (15litre capacity) or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.
Horticulture Crops			
Tomato	Fruit borer		-Prophylactic measure to protect from Early blight of Tomato is recommended. D. M-45 (Mencozeb) @ 2gm/l may be sprayed.
Water melon			-In early stage the beds and ridges should be free from weeds. In the later stage the vine will automatically cover the space in between the plants. Hence, weeding cum top dressing is recommended
Allium odorosum			-Plantation of Allium odorosum (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
Ginger/Turmeric	Land preparation		-Land preparation for plantation of Ginger/turmeric may be started. -Upland areas are more suitable for the crop. -Ginger rhizome seeds affected by rhizome rot should be discarded.
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Confidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm.



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			- Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect birds of all age groups from inclement weather, there should be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		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	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
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		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.
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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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Type of Farming	Stage	Management	Agro-metrological advisories
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		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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