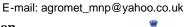
HIP3HII ICAR

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





"Gramin Krishi Mausam Seva"

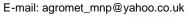
MANIPUR BULLETIN 8th March, 2016

Ukhrul

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (4 th to 7 th March, 2016)	(9 th to 13 th March, 2016)
The sky was mainly Clear to partly cloudy. The Rainfall 2.4 mm was	Light rains likely during the next five days. The sky will remain
recorded during past four days. Maximum temperature range	mainly clear to fair sky, with maximum temp. of $29.0 - 32.0$ °C &
observed was 26.4 - 28.5 °C, range of minimum temperature	minimum temp. 13.0 - 14.0 °C. Relative humidity may reach upto
observed was 11.0 - 13.0 °C, mean relative humidity observed in	82% (max RH) & 21 % (min RH). The average wind speed may be 3-
morning and afternoon were 92 % and 47 % respectively. The	4 km/hr. Wind direction may be South south Westerly to North west
average wind speed range was 4.1 – 11.1 km/hr.	Westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Field Pea/ Lentil	Vegetative	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			
French bean	Land preparation		 -Land preparation for sowing of French bean should be started. -Quality seed should be collected. -Seed treatment against soil born diseases is advised preferably Trichoderma harzianum @ 10gm/kg seed is recommended.
			-Seed rate for dwarf variety are 50-60 kg/ha at 10X30 cm spacing and 30-40 kg at 30X45 cm spacing for pole type.
Okra/bhindi	Land preparation		-land preparation for sowing of Bhindi should be started.
Tomato	Top dressing and earthing up		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up.
Cucurbits (bottle gourd, sponge gourd, pumpkin, water melon, etc.)	Offseason		 -Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid multiplication of mycelium for powdery mildew. - Spray Bayleton (Triademofon 25% WP) @ 7.5 g/ pump (15litre capacity) or Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose. - Transplant seedlings of 4-stage leaves at warm temperature.
Onion	Vegetative		 Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation. If availability of water is a problem mulching material free from fungal diseases may also be used. Neck portion in plant should not be covered with soil
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. 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	Crowth stags	Disago/ infectation	A ma matapularias advisavias
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.





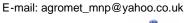


"Gramin Krishi Mausam Seva"

			- 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. R₂B 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) Enterotoxemia	 If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants). If the Lambs and Kids in particular should be gien the caccination to
Joung ones	Ectoparasitism	 prevent Enterotoxaemia. Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
	young ones	Deworming Ectoparasitism	 -Give Morantel citrate tablet @ 15 mg/kg of body weight. - Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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 Ectoparasitism	 -If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease. - Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution
	Johnes disease & Sterility	(2 C.C. in 1 litre of water) can also be used. 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 Carp culture	Stage Fries/ fingerlings/ brooders	Management Pond and water	Agro-metrological advisories -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 Fish	Provide feed 1-2 times @ 2 % body weight per day. - Male and female brooders should be stock in separate ponds for early
		1 1511	 Male and remare broders should be stock in separate points for early breeding programs for Common Carp. Harvesting of fish may be done in area where water availability is low.

High Shift

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





"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 8th March, 2016

Bishnupur

t rains likely during the next five days. The sky will remain ly clear to fair sky, with maximum temp. of $29.0 - 31.0$ °C &
ly clear to fair sky, with maximum temp. of $29.0 - 31.0$ °C &
mum temp. 13.0 – 14.0 °C. Relative humidity may reach upto
(max RH) & 19 % (min RH). The average wind speed may be 3-
n/hr. Wind direction may be South south Westerly to South
erly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	·	·	·
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Field Pea/ Lentil	Vegetative	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			
French bean	Land preparation		 -Land preparation for sowing of French bean should be started. -Quality seed should be collected. -Seed treatment against soil born diseases is advised preferably Trichoderma harzianum @ 10gm/kg seed is recommended.
			-Seed rate for dwarf variety are 50-60 kg/ha at 10X30 cm spacing and 30-40 kg at 30X45 cm spacing for pole type.
Okra/bhindi	Land preparation		-land preparation for sowing of Bhindi should be started.
Tomato	Top dressing and earthing up		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up.
Cucurbits (bottle gourd, sponge gourd, pumpkin, water melon,	Offseason		 -Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid multiplication of mycelium for powdery mildew. - Spray Bayleton (Triademofon 25% WP) @ 7.5 g/ pump (15litre capacity) or
etc.)			Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose. - Transplant seedlings of 4-stage leaves at warm temperature.
Onion	Vegetative		- Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation.
			- If availability of water is a problem mulching material free from fungal diseases may also be used.
Potato	For seed		 Neck portion in plant should not be covered with soil 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. 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		1	101 curing of skin and left undisturbed 101 13-20 days.
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.





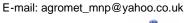
E-mail: agromet_mnp@yahoo.co.uk

"Gramin Krishi Mausam Seva"

			- Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat,
		Ranikhet Diseases	Bajra etc.) and can be added 5% more. 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_2B 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	PPR (Peste Des Petits	- If the animals have not yet been vaccinated, give vaccine now for PPR
	excepts the	Ruminants)	(Peste Des Petits Ruminants).
	young ones	Enterotoxemia	- If the Lambs and Kids in particular should be gien the caccination to prevent Enterotoxaemia.
	Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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	Care & management for	-Artificial lighting and heating to the piglets.
	excepts the	newly born one	-Provide adequate bedding materials.
	young ones	Deworming	-Give Morantel citrate tablet @ 15 mg/kg of body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
young ones	Ectoparasitism	 Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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.
		Puerperal Fever in Pregnant animals	-Silage can be prepared. -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:		1	
Type of Farming	Stage	Management Dond and water	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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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





"Gramin Krishi Mausam Seva"

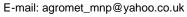
MANIPUR BULLETIN 8th March, 2016

Imphal West

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal West
Imphal - West (4 th to 7 th March, 2016)	(9 th to 13 th March, 2016)
The sky was mainly Clear to partly cloudy. The Rainfall 2.4 mm was	Light rains likely during the next five days. Sky will remain mainly
recorded during past four days. Maximum temperature range	clear to fair sky, with maximum temp. of 27.0 - 29.0 °C & minimum
observed was 26.4 - 28.5 °C, range of minimum temperature	temp. 12.0 - 13.0 °C. Relative humidity may reach upto 95% (max
observed was 11.0 - 13.0 °C, mean relative humidity observed in	RH) & 22 % (min RH). The average wind speed may be 3-4 km/hr.
morning and afternoon were 92 % and 47 % respectively. The	Wind direction may be South Westerly to Westerly during next five
average wind speed range was 4.1 – 11.1 km/hr.	days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		-	
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Field Pea/ Lentil	Vegetative	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			
French bean	Land preparation		-Land preparation for sowing of French bean should be started. -Quality seed should be collected. -Seed treatment against soil born diseases is advised preferably Trichoderma
			harzianum @ 10gm/kg seed is recommended. -Seed rate for dwarf variety are 50-60 kg/ha at 10X30 cm spacing and 30-40 kg at 30X45 cm spacing for pole type.
Okra/bhindi	Land preparation		-land preparation for sowing of Bhindi should be started.
Tomato	Top dressing and earthing up		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up.
Cucurbits (bottle gourd, sponge gourd,	Offseason		-Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid multiplication of mycelium for powdery mildew.
pumpkin, water melon, etc.)			 Spray Bayleton (Triademofon 25% WP) @ 7.5 g/ pump (15litre capacity) or Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose. Transplant seedlings of 4-stage leaves at warm temperature.
Onion	Vegetative		- Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation.
			- If availability of water is a problem mulching material free from fungal diseases may also be used.
D	F 1		- Neck portion in plant should not be covered with soil
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.
			 Harvest the crop when the skill of the tuber has become firm. 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		<u> </u>	for curing of skill and icit undisturbed for 13-20 days.
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.





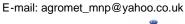


"Gramin Krishi Mausam Seva"

			- 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. R₂B 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) Enterotoxemia	 If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants). If the Lambs and Kids in particular should be gien the caccination to
	young ones	Enterotoxenna	prevent Enterotoxaemia.
	Ectoparasitism	 Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
	young ones	Deworming Ectoparasitism	 -Give Morantel citrate tablet @ 15 mg/kg of body weight. - Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
young ones		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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		
		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.
Fishery:	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
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.

HIP3HII

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





"Gramin Krishi Mausam Seva"

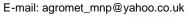
MANIPUR BULLETIN 8th March, 2016

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th March, 2016) ns likely during the next five days. The sky will remain lear to fair sky, with maximum temp. of $28.0 - 30.0$ °C &
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x RH) & 20 % (min RH). The average wind speed may be 4-
Wind direction may be Westerly to North west Westerly
ext five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	·	·	·
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Field Pea/ Lentil	Vegetative	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		•	
French bean	Land preparation		 -Land preparation for sowing of French bean should be started. -Quality seed should be collected. -Seed treatment against soil born diseases is advised preferably Trichoderma harzianum @ 10gm/kg seed is recommended. -Seed rate for dwarf variety are 50-60 kg/ha at 10X30 cm spacing and 30-40
			kg at 30X45 cm spacing for pole type.
Okra/bhindi	Land preparation		-land preparation for sowing of Bhindi should be started.
Tomato	Top dressing and earthing up		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up.
Cucurbits (bottle gourd, sponge gourd, pumpkin, water melon, etc.)	Offseason		 -Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid multiplication of mycelium for powdery mildew. - Spray Bayleton (Triademofon 25%WP) @ 7.5 g/ pump (15litre capacity) or Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose. - Transplant seedlings of 4-stage leaves at warm temperature.
Onion	Vegetative		 Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation. If availability of water is a problem mulching material free from fungal diseases may also be used. Neck portion in plant should not be covered with soil
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. 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			for curing of skin and fort undisturbed for 13-20 days.
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.







"Gramin Krishi Mausam Seva"

			- 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. R₂B 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) Enterotoxemia	 If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants). If the Lambs and Kids in particular should be gien the caccination to
Joung ones	Ectoparasitism	 prevent Enterotoxaemia. Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
	young ones	Deworming Ectoparasitism	 -Give Morantel citrate tablet @ 15 mg/kg of body weight. - Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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 Ectoparasitism	 -If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease. - Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution
	Johnes disease & Sterility	(2 C.C. in 1 litre of water) can also be used. 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 Carp culture	Stage Fries/ fingerlings/ brooders	Management Pond and water	Agro-metrological advisories -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 Fish	Provide feed 1-2 times @ 2 % body weight per day. - Male and female brooders should be stock in separate ponds for early
		1 1511	 Male and remare broders should be stock in separate points for early breeding programs for Common Carp. Harvesting of fish may be done in area where water availability is low.

HIP3HII ICAR

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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 8th March, 2016

Churachandpur

$(0^{\text{th}} + 12^{\text{th}} M_{\text{curl}} + 2016)$
(9 th to 13 th March, 2016)
Light rains likely during the next five days. The sky will remain
mainly clear to fair sky, with maximum temp. of $30.0 - 32.0$ °C &
minimum temp. 15.0 - 16.0 °C. Relative humidity may reach upto
75% (max RH) & 18% (min RH). The average wind speed may be 3-
4 km/hr. Wind direction may be South south Easterly to Westerly
during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	•	·	·
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Field Pea/ Lentil	Vegetative	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		•	
French bean	Land preparation		 -Land preparation for sowing of French bean should be started. -Quality seed should be collected. -Seed treatment against soil born diseases is advised preferably Trichoderma harzianum @ 10gm/kg seed is recommended. -Seed rate for dwarf variety are 50-60 kg/ha at 10X30 cm spacing and 30-40 be set 20X45.
Okra/bhindi	T		kg at 30X45 cm spacing for pole type.
OKra/bhindi	Land preparation		-land preparation for sowing of Bhindi should be started.
Tomato	Top dressing and earthing up		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up.
Cucurbits (bottle gourd, sponge gourd, pumpkin, water melon, etc.)	Offseason		 -Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid multiplication of mycelium for powdery mildew. - Spray Bayleton (Triademofon 25%WP) @ 7.5 g/ pump (15litre capacity) or Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose. - Transplant seedlings of 4-stage leaves at warm temperature.
Onion	Vegetative		 Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation. If availability of water is a problem mulching material free from fungal diseases may also be used. Neck portion in plant should not be covered with soil
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. 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.





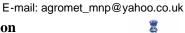
E-mail: agromet_mnp@yahoo.co.uk

"Gramin Krishi Mausam Seva"

			- Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat,
		Ranikhet Diseases	Bajra etc.) and can be added 5% more. 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_2B 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	PPR (Peste Des Petits	- If the animals have not yet been vaccinated, give vaccine now for PPR
	excepts the	Ruminants)	(Peste Des Petits Ruminants).
	young ones	Enterotoxemia	- If the Lambs and Kids in particular should be gien the caccination to prevent Enterotoxaemia.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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	Care & management for	-Artificial lighting and heating to the piglets.
	excepts the	newly born one	-Provide adequate bedding materials.
	young ones	Deworming	-Give Morantel citrate tablet @ 15 mg/kg of body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
young ones		Ectoparasitism	 Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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.
		Puerperal Fever in Pregnant animals	-Silage can be prepared. -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:		1	
Type of Farming	Stage	Management Dond and water	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.

High Ship

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





"Gramin Krishi Mausam Seva"

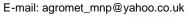
MANIPUR BULLETIN 8th March, 2016

Imphal-East

(9 th to 13 th March, 2016)
Light rains likely during the next five days. The sky will remain
mainly clear to fair sky, with maximum temp. of $27.0 - 29.0$ °C &
minimum temp. 12.0 - 13.0 °C. Relative humidity may reach upto
95% (max RH) & 19 % (min RH). The average wind speed may be 2-
3 km/hr. Wind direction may be South south Westerly to Westerly
during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	•		·
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Field Pea/ Lentil	Vegetative	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			
French bean	Land preparation		 -Land preparation for sowing of French bean should be started. -Quality seed should be collected. -Seed treatment against soil born diseases is advised preferably Trichoderma harzianum @ 10gm/kg seed is recommended. -Seed rate for dwarf variety are 50-60 kg/ha at 10X30 cm spacing and 30-40 kg at 30X45 cm spacing for pole type.
Okra/bhindi	Land preparation		-land preparation for sowing of Bhindi should be started.
Tomato	Top dressing and earthing up		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up.
Cucurbits (bottle gourd, sponge gourd, pumpkin, water melon, etc.)	Offseason		 -Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid multiplication of mycelium for powdery mildew. - Spray Bayleton (Triademofon 25% WP) @ 7.5 g/ pump (15litre capacity) or Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose. - Transplant seedlings of 4-stage leaves at warm temperature.
Onion	Vegetative		 Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation. If availability of water is a problem mulching material free from fungal diseases may also be used. Neck portion in plant should not be covered with soil
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. 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.





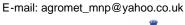


"Gramin Krishi Mausam Seva"

			- 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. R₂B 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) Enterotoxemia	 If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants). If the Lambs and Kids in particular should be gien the caccination to
		Ectoparasitism	 prevent Enterotoxaemia. Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
	young ones	Deworming Ectoparasitism	 -Give Morantel citrate tablet @ 15 mg/kg of body weight. - Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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.
excepts the	All age groups excepts the young ones	B.Q./ H.S/FMD Ectoparasitism	 -If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease. - Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution
		Johnes disease & Sterility	(2 C.C. in 1 litre of water) can also be used. 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 Carp culture	Stage Fries/ fingerlings/ brooders	Management Pond and water	Agro-metrological advisories -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 Fish	Provide feed 1-2 times @ 2 % body weight per day. - Male and female brooders should be stock in separate ponds for early
		1 1511	 Male and remare broders should be stock in separate points for early breeding programs for Common Carp. Harvesting of fish may be done in area where water availability is low.

High Strip

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





"Gramin Krishi Mausam Seva"

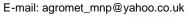
MANIPUR BULLETIN 8th March, 2016

Senapati

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati
Imphal - West (4 th to 7 th March, 2016)	(9 th to 13 th March, 2016)
The sky was mainly Clear to partly cloudy. The Rainfall 2.4 mm was	Light rains likely during the next five days. The sky will remain
recorded during past four days. Maximum temperature range	mainly clear to fair sky, with maximum temp. of $27.0 - 29.0$ °C &
observed was 26.4 - 28.5 °C, range of minimum temperature	minimum temp. 8.0 – 10.0 °C. Relative humidity may reach upto 93%
observed was 11.0 - 13.0 °C, mean relative humidity observed in	(max RH) & 20 % (min RH). The average wind speed may be 2-3
morning and afternoon were 92 % and 47 % respectively. The	km/hr. Wind direction may be South south Westerly to South west
average wind speed range was 4.1 – 11.1 km/hr.	Westerly during next five days.

Stage	Pest and disease	Agro-meteorological advisories
	•	
Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Vegetative	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.
Land preparation		 -Land preparation for sowing of French bean should be started. -Quality seed should be collected. -Seed treatment against soil born diseases is advised preferably Trichoderma
		harzianum @ 10gm/kg seed is recommended.
		-Seed rate for dwarf variety are 50-60 kg/ha at 10X30 cm spacing and 30-40 kg at 30X45 cm spacing for pole type.
Land preparation		-land preparation for sowing of Bhindi should be started.
Top dressing and earthing up		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up.
Offseason		-Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid
		multiplication of mycelium for powdery mildew.
		- Spray Bayleton (Triademofon 25% WP) @ 7.5 g/ pump (15litre capacity) or
		Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose. - Transplant seedlings of 4-stage leaves at warm temperature.
Vegetative		- Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation.
		- If availability of water is a problem mulching material free from fungal diseases may also be used.
		- Neck portion in plant should not be covered with soil
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.
		- 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.
	1	
Growth stage	Disease/ infestation	Agro-meteorological advisories
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.
	Flowering Vegetative Land preparation Land preparation Top dressing and earthing up Offseason Vegetative For seed For seed Growth stage	Flowering Vegetative Powdery Mildew Aphid Land preparation Land preparation Top dressing and earthing up Offseason Offseason For seed For seed





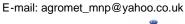


"Gramin Krishi Mausam Seva"

			- 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. R₂B 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) Enterotoxemia	 If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants). If the Lambs and Kids in particular should be gien the caccination to
		Ectoparasitism	 prevent Enterotoxaemia. Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
	young ones	Deworming Ectoparasitism	 -Give Morantel citrate tablet @ 15 mg/kg of body weight. - Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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.
excepts the	All age groups excepts the young ones	B.Q./ H.S/FMD Ectoparasitism	 -If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease. - Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution
		Johnes disease & Sterility	(2 C.C. in 1 litre of water) can also be used. 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 Carp culture	Stage Fries/ fingerlings/ brooders	Management Pond and water	Agro-metrological advisories -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 Fish	Provide feed 1-2 times @ 2 % body weight per day. - Male and female brooders should be stock in separate ponds for early
		1 1511	 Male and remare broders should be stock in separate points for early breeding programs for Common Carp. Harvesting of fish may be done in area where water availability is low.

High Strip

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





"Gramin Krishi Mausam Seva"

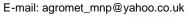
MANIPUR BULLETIN 8th March, 2016

Tamenglong

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (4 th to 7 th March, 2016)	(9 th to 13 th March, 2016)
The sky was mainly Clear to partly cloudy. The Rainfall 2.4 mm was	Light rains likely during the next five days. The sky will remain
recorded during past four days. Maximum temperature range	mainly clear to fair sky, with maximum temp. of $29.0 - 31.0$ °C &
observed was 26.4 - 28.5 °C, range of minimum temperature	minimum temp.10.0 – 12.0 °C. Relative humidity may reach upto 88%
observed was 11.0 - 13.0 °C, mean relative humidity observed in	(max RH) & 20 % (min RH). The average wind speed may be 2-3
morning and afternoon were 92 % and 47 % respectively. The	km/hr. Wind direction may be Northerly to Southerly during next five
average wind speed range was $4.1 - 11.1$ km/hr.	days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	-		
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Field Pea/ Lentil	Vegetative	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			
French bean	Land preparation		-Land preparation for sowing of French bean should be started. -Quality seed should be collected.
			-Seed treatment against soil born diseases is advised preferably Trichoderma harzianum @ 10gm/kg seed is recommended.
			-Seed rate for dwarf variety are 50-60 kg/ha at 10X30 cm spacing and 30-40 kg at 30X45 cm spacing for pole type.
Okra/bhindi	Land preparation		-land preparation for sowing of Bhindi should be started.
Tomato	Top dressing and earthing up		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up.
Cucurbits (bottle	Offseason		-Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid
gourd, sponge gourd,			multiplication of mycelium for powdery mildew.
pumpkin, water melon, etc.)			- Spray Bayleton (Triademofon 25% WP) @ 7.5 g/ pump (15litre capacity) or Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose.
,			- Transplant seedlings of 4-stage leaves at warm temperature.
Onion	Vegetative		- Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation.
			- If availability of water is a problem mulching material free from fungal
			diseases may also be used.
	D		- Neck portion in plant should not be covered with soil
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.
			- 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	•	L	
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.
	1	1	adoquate arrangements for artificial infining and nouting.





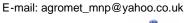


"Gramin Krishi Mausam Seva"

			- 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. R₂B 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) Enterotoxemia	 If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants). If the Lambs and Kids in particular should be gien the caccination to
		Ectoparasitism	 prevent Enterotoxaemia. Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
	young ones	Deworming Ectoparasitism	 -Give Morantel citrate tablet @ 15 mg/kg of body weight. - Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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.
excepts the	All age groups excepts the young ones	B.Q./ H.S/FMD Ectoparasitism	 -If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease. - Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution
		Johnes disease & Sterility	(2 C.C. in 1 litre of water) can also be used. 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 Carp culture	Stage Fries/ fingerlings/ brooders	Management Pond and water	Agro-metrological advisories -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 Fish	Provide feed 1-2 times @ 2 % body weight per day. - Male and female brooders should be stock in separate ponds for early
		1 1511	 Male and remare broders should be stock in separate points for early breeding programs for Common Carp. Harvesting of fish may be done in area where water availability is low.

High Shift

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





"Gramin Krishi Mausam Seva"

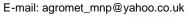
MANIPUR BULLETIN 8th March, 2016

Thoubal

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal
Imphal - West (4 th to 7 th March, 2016)	(9 th to 13 th March, 2016)
The sky was mainly Clear to partly cloudy. The Rainfall 2.4 mm was	Light rains likely during the next five days. The sky will remain
recorded during past four days. Maximum temperature range	mainly clear to fair sky, with maximum temp. of $28.0 - 30.0$ °C &
observed was 26.4 - 28.5 °C, range of minimum temperature	minimum temp. 12.0 - 13.0 °C. Relative humidity may reach upto
observed was 11.0 - 13.0 °C, mean relative humidity observed in	82% (max RH) & 18% (min RH). The average wind speed may be 3-
morning and afternoon were 92 % and 47 % respectively. The	4 km/hr. Wind direction may be South west Westerly to Westerly
average wind speed range was $4.1 - 11.1$ km/hr.	during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories	
Field Crops				
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.	
Field Pea/ Lentil	Vegetative	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				
French bean	Land preparation		 -Land preparation for sowing of French bean should be started. -Quality seed should be collected. -Seed treatment against soil born diseases is advised preferably Trichoderma 	
			harzianum @ 10gm/kg seed is recommended.	
			-Seed rate for dwarf variety are 50-60 kg/ha at 10X30 cm spacing and 30-40 kg at 30X45 cm spacing for pole type.	
Okra/bhindi	Land preparation		-land preparation for sowing of Bhindi should be started.	
Tomato	Top dressing and earthing up		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up.	
Cucurbits (bottle	Offseason		-Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid	
gourd, sponge gourd,			multiplication of mycelium for powdery mildew.	
pumpkin, water melon,			- Spray Bayleton (Triademofon 25% WP) @ 7.5 g/ pump (15litre capacity) or	
etc.)			Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose. - Transplant seedlings of 4-stage leaves at warm temperature.	
Onion	Vegetative		- Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation.	
			- If availability of water is a problem mulching material free from fungal diseases may also be used.	
			- Neck portion in plant should not be covered with soil	
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.	
			- 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.	
,		1	aucquaic arrangements for armitial lighting and heating.	







"Gramin Krishi Mausam Seva"

			- 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. R₂B 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) Enterotoxemia	 If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants). If the Lambs and Kids in particular should be gien the caccination to 	
	Ectoparasitism	 prevent Enterotoxaemia. Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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.	
	young ones	Deworming Ectoparasitism	 -Give Morantel citrate tablet @ 15 mg/kg of body weight. - Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) 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 Ectoparasitism	 -If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease. - Keep the sheds clean. Hang Bouquets of Basil (Ocimum sactum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution
		Johnes disease & Sterility	(2 C.C. in 1 litre of water) can also be used. 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.
	-	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:		1	
Type of Farming Stage Carp culture Fries/ fingerl brooders brooders	Fries/ fingerlings/	Management Pond and water	Agro-metrological advisories -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 Fish	Provide feed 1-2 times @ 2 % body weight per day. - 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.