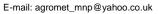


ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





MANIPUR BULLETIN

9th January, 2018

<u>Bishnupur</u>

Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 8 th January, 2018)	Weather forecast for next five days of Bishnupur (10 th to 14 th January, 2018)
Observed fog at foothills during morning hours and clear sky	(10 10 11 0011011, 2010)
during afternoon hours with no rainfall during past four days.	Likely to have dense fog at isolated places during morning hours
Maximum temperature range of 20.2 to 21.3 °C and minimum	and clear to partly cloudy sky during afternoon hours upto Sunday.
temperature range of 2.5 to 8.3 ° C with mean relative	
humidity 93.25 % max and 50.75 % min was recorded in the	relative humidity may reach up to 89% (max RH) & 38% (min RH).
past four days.	The average wind speed may be 0-2 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/	Flowering to	Aphid	 Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
Mustard/	fruiting	Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing. or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
Lentil/ Blackgram	Vegetative to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
(late variety)/ Field Pea	flowering	Powdery mildew & rust	- Spray Bayleton @ 7g/ 10 litres of water. Or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Early vegetative		 Light irrigation may be given to keep soil moist if the soil is dry. Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Vegetative		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying an cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spra Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Nursery raising		 Raise cucurbits like water-melon, cucumber, sponge gourd, etc. in poly-pouch and trays under polyhouse. Recommended varieties of water melon :- for small type: Water Baby; for big type: Madhavi-10.
Onion/ Garlic	Vegetative		- Apply 64kg Urea, 44kg DAP and 34 kg MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Cole crops	Nursery raising		- Nursery for late crops may be raised.
Citrus		Leaf Minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery
	For nursery	Leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray



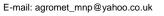
ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

	trees		Bayleton @7 g / 15 lit of water.
Tomato	Vegetative to flowering Sowing	Early blight	 Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water. Tomato nurseries should be raised under low cost polyhouse as the temperature
			 is very low in open field. Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.
Animal Science	-		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Management	 Protect animals/ birds from cold. Cover the wall with hessian cloth/ polythene sheet during night time. Litter must be stirred frequently and aired every day.
Sheep/ Goat All age groups	All age groups	Vaccination	 If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. Take adequate care to prevent occurrence of Mastitis. PPR immunization must be done once in every three years.
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		• Shearing for wool	• Sheep should be sheared during this month.
Pig	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	 Vaccination 	• Vaccinate against FMD.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle	All age groups excepts the young ones	Vaccination	 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures
		Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	ation: Oat crop may be	sown immediately.	
Fishery:		1	
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	 Lime/ Aqua magic should be applied regularly @ 20-30 kg/ha to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. Replace half of pond water with fresh & clean water at every 25-30 days interval. Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
*		Fish	 Male and female brooders should be stock in separate ponds for early breeding programs. harvesting of fish may be done in area where water availability is low.
		Feeding	- Feeds should be provided once a day.





ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





MANIPUR BULLETIN

9th January, 2018

<u>Chandel</u>

Observed fog at foothills during morning hours and clear sky during afternoon hours with no rainfall during past four days. Maximum temperature range of 20.2 to 21.3 °C and minimum temperature range of 2.5 to 8.3 °C with mean relative The maximum temp. 20-21 °C & minimum temp. 3-4 °C	
Maximum temperature range of 20.2 to 21.3 °C and minimum and clear to partly cloudy sky during afternoon hours upto	
	ig hours
temperature range of 2.5 to 8.3 ° C with mean relative The maximum temp. 20-21 ° C & minimum temp. 3-4	Sunday.
	°C and
humidity 93.25 % max and 50.75 % min was recorded in the relative humidity may reach up to 87% (max RH) & 42% (max RH)	nin RH).
past four days. The average wind speed may be 3-4 km/hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Flowering to fruiting	Aphid	 Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing. or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
Lentil/ Blackgram	Vegetative to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
(late variety)/ Field Pea	flowering	Powdery mildew & rust	- Spray Bayleton @ 7g/ 10 litres of water. Or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Early vegetative		Light irrigation may be given to keep soil moist if the soil is dry.Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Vegetative		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying an cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Sprai Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Nursery raising		 Raise cucurbits like water-melon, cucumber, sponge gourd, etc. in poly-pouch and trays under polyhouse. Recommended varieties of water melon :- for small type: Water Baby; for big type: Madhavi-10.
Onion/ Garlic	Vegetative		- Apply 64kg Urea, 44kg DAP and 34 kg MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Cole crops	Nursery raising		- Nursery for late crops may be raised.
Citrus	For nursery	Leaf Minor Leaf eating caterpillar, thrips & mite.	 Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery Spray Confidor @ 0.5 ml/ lit of water.
	For grown up	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray



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

	trees		Bayleton @7 g / 15 lit of water.
Tomato Vegetative to flowering Sowing		Early blight	 Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water. Tomato nurseries should be raised under low cost polyhouse as the temperature is very low in open field. Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m²
			area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m ² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.
Animal Science	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Management	 Protect animals/ birds from cold. Cover the wall with hessian cloth/ polythene sheet during night time. Litter must be stirred frequently and aired every day.
Sheep/ Goat All age groups		Vaccination	 If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. Take adequate care to prevent occurrence of Mastitis. PPR immunization must be done once in every three years.
		• De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		Shearing for wool	• Sheep should be sheared during this month.
Pig	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	 Vaccination 	Vaccinate against FMD.
		 Skin disease 	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle exce	All age groups excepts the young ones	Vaccination	 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures
		Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
	ation: Oat crop may be	sown immediately.	
Fishery:	-		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	 Lime/ Aqua magic should be applied regularly @ 20-30 kg/ha to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. Replace half of pond water with fresh & clean water at every 25-30 days interval. Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
-		Fish	 Male and female brooders should be stock in separate ponds for early breeding programs. harvesting of fish may be done in area where water availability is low.
		Feeding	- Feeds should be provided once a day.





E-mail: agromet_mnp@yahoo.co.uk ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

9th January, 2018

Churachandpur

Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 8 th January, 2018)	Weather forecast for next five days of Churachandpur (10 th to 14 th January, 2018)
Observed fog at foothills during morning hours and clear sky	
during afternoon hours with no rainfall during past four days.	Likely to have dense fog at isolated places during morning hours
Maximum temperature range of 20.2 to 21.3 °C and minimum	and clear to partly cloudy sky during afternoon hours upto Sunday.
temperature range of 2.5 to 8.3 ° C with mean relative	The maximum temp. 20-21 ° C & minimum temp. 4-5 ° C and
humidity 93.25 % max and 50.75 % min was recorded in the	relative humidity may reach up to 88% (max RH) & 32% (min RH).
past four days.	The average wind speed may be 0-2 km/hr.
past four days.	The average wind speed may be 0-2 km/nr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Flowering to fruiting	Aphid	 Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing. or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
Lentil/ Blackgram	Vegetative to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
(late variety)/ Field Pea	flowering	Powdery mildew & rust	- Spray Bayleton @ 7g/ 10 litres of water. Or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Early vegetative		Light irrigation may be given to keep soil moist if the soil is dry.Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Vegetative		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture conten or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Nursery raising		 Raise cucurbits like water-melon, cucumber, sponge gourd, etc. in poly-pouch and trays under polyhouse. Recommended varieties of water melon :- for small type: Water Baby; for big type: Madhavi-10.
Onion/ Garlic	Vegetative		- Apply 64kg Urea, 44kg DAP and 34 kg MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Cole crops	Nursery raising		- Nursery for late crops may be raised.
Citrus		Leaf Minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
	For nursery	Leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray



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

	trees		Bayleton @7 g / 15 lit of water.
Tomato	Vegetative to	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of
	flowering		water. Also apply Dithane M 45 @ 2g/ litre of water.
	Sowing		- Tomato nurseries should be raised under low cost polyhouse as the temperature
			is very low in open field.
			- Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ $5g/3m^2$
			area, keep the bed covered with gunny bag for at least 24 hrs.
			- Sow seeds @ 10g/ 3m ² area keep the bed covered with gunny bag. Seeds will
			germinate in 4-5 days.
Animal Science		T	
Name of	Stage	Disease and	Agro-meteorological advisories
bird/ animal		Management	
Poultry	All age groups	 Management 	• Protect animals/ birds from cold. Cover the wall with hessian cloth/ polythene
(Chicken/			sheet during night time.
Duck)			• Litter must be stirred frequently and aired every day.
Sheep/ Goat	All age groups	Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,
-			Enterotoxaemia, etc. this must be done during this month.
			• Take adequate care to prevent occurrence of Mastitis.
			• PPR immunization must be done once in every three years.
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		• Shearing for wool	• Sheep should be sheared during this month.
Pig	All age groups	 Coccidial infection 	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups	 Vaccination 	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Cattle	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
			be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
			30ml for 100 kg body weight.
		• Care & Management	• Mixture of mineral/ salts should be added in the feed.
			• Avoid the cattle from chiting/biting by Flies
			Adopt tick control measures
		Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch
			animals.
• Fodder cultiva <i>Fishery:</i>	ation: Oat crop may be	sown immediately.	
Type of	Stage	Management	Agro-metrological advisories
Farming	Singe		
0			- Lime/ Aqua magic should be applied regularly @ 20-30 kg/ha to keep good
			quality pond water. Water depth should be maintained at 1.0-1.5m.
	Crow out	Pond water	- Replace half of pond water with fresh & clean water at every 25-30 days
			interval.
Carp culture	Grow-out		- Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding
			programs.
			- harvesting of fish may be done in area where water availability is low.
		Feeding	- Feeds should be provided once a day.





ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

9th January, 2018

E-mail: agromet_mnp@yahoo.co.uk

<u>Senapati</u>

Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 8 th January, 2018)	Weather forecast for next five days of Senapati (10 th to 14 th January, 2018)
Observed fog at foothills during morning hours and clear sky	
during afternoon hours with no rainfall during past four days.	Likely to have dense fog at isolated places during morning hours
Maximum temperature range of 20.2 to 21.3 °C and minimum	and clear to partly cloudy sky during afternoon hours upto Sunday.
temperature range of 2.5 to 8.3 ° C with mean relative	The maximum temp. 17-18 ° C & minimum temp. 3-5 ° C and
humidity 93.25 % max and 50.75 % min was recorded in the	relative humidity may reach up to 87% (max RH) & 33% (min RH).
past four days.	The average wind speed may be 2-3 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/	Flowering to	Aphid	 Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
Mustard/	fruiting	Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing. or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
Lentil/ Blackgram	Vegetative to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
(late variety)/ Field Pea	flowering	Powdery mildew & rust	- Spray Bayleton @ 7g/ 10 litres of water. Or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Early vegetative		 Light irrigation may be given to keep soil moist if the soil is dry. Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
			- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
Potato	Vegetative	Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying an cleaning of seeds along with dry charcoal at 80:20. Check for moisture conter or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spra Malathion 1% on the walls of stores.
Horticulture Crops		<u>.</u>	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Nursery raising		 Raise cucurbits like water-melon, cucumber, sponge gourd, etc. in poly-pouch and trays under polyhouse. Recommended varieties of water melon :- for small type: Water Baby; for big type: Madhavi-10.
Onion/ Garlic	Vegetative		- Apply 64kg Urea, 44kg DAP and 34 kg MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Cole crops	Nursery raising		- Nursery for late crops may be raised.
Citrus	For nursery	Leaf Minor Leaf eating caterpillar, thrips & mite.	 Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery Spray Confidor @ 0.5 ml/ lit of water.
	For grown up	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray



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

	trees		Bayleton @7 g / 15 lit of water.
Tomato	Vegetative to flowering Sowing	Early blight	 Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water. Tomato nurseries should be raised under low cost polyhouse as the temperature
			 is very low in open field. Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.
Animal Science			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Management	 Protect animals/ birds from cold. Cover the wall with hessian cloth/ polythene sheet during night time. Litter must be stirred frequently and aired every day.
Sheep/ Goat All age groups	All age groups	Vaccination	 If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. Take adequate care to prevent occurrence of Mastitis. PPR immunization must be done once in every three years.
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		• Shearing for wool	• Sheep should be sheared during this month.
Pig	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	 Vaccination 	Vaccinate against FMD.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle	All age groups excepts the young ones	Vaccination	 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures
		Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	ation: Oat crop may be	sown immediately.	
Fishery:	T ~	1	
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	 Lime/ Aqua magic should be applied regularly @ 20-30 kg/ha to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. Replace half of pond water with fresh & clean water at every 25-30 days interval. Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
-		Fish	Male and female brooders should be stock in separate ponds for early breeding programs.harvesting of fish may be done in area where water availability is low.
		Feeding	- Feeds should be provided once a day.





ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





MANIPUR BULLETIN

9th January, 2018

Tamenglong

Weather forecast for next five days of Tamenglong
(10 th to 14 th January, 2018)
Likely to have dense fog at isolated places during morning hours
and clear to partly cloudy sky during afternoon hours upto Sunday.
The maximum temp. 21-22 ° C & minimum temp. 4-6 ° C and
relative humidity may reach up to 88% (max RH) & 38% (min RH).
The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Flowering to fruiting	Aphid	 Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing. or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
Lentil/ Blackgram	Vegetative to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
(late variety)/ Field Pea	flowering	Powdery mildew & rust	- Spray Bayleton @ 7g/ 10 litres of water. Or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Early vegetative		Light irrigation may be given to keep soil moist if the soil is dry.Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
			- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
Potato	Vegetative	Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture conten or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Nursery raising		 Raise cucurbits like water-melon, cucumber, sponge gourd, etc. in poly-pouch and trays under polyhouse. Recommended varieties of water melon :- for small type: Water Baby; for big type: Madhavi-10.
Onion/ Garlic	Vegetative		- Apply 64kg Urea, 44kg DAP and 34 kg MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Cole crops	Nursery raising		- Nursery for late crops may be raised.
Citrus		Leaf Minor Leaf eating	 Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery. Spray Confidor @ 0.5 ml/ lit of water.
	For nursery	caterpillar, thrips & mite.	
	For grown up	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray



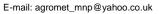
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	trees		Bayleton @7 g / 15 lit of water.
Tomato	Vegetative to flowering Sowing	Early blight	 Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water. Tomato nurseries should be raised under low cost polyhouse as the temperature
			 is very low in open field. Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.
Animal Science	1	1	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Management	 Protect animals/ birds from cold. Cover the wall with hessian cloth/ polythene sheet during night time. Litter must be stirred frequently and aired every day.
Sheep/ Goat	All age groups	Vaccination	 If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. Take adequate care to prevent occurrence of Mastitis. PPR immunization must be done once in every three years.
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		• Shearing for wool	• Sheep should be sheared during this month.
Pig	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	 Vaccination 	Vaccinate against FMD.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle	All age groups excepts the young ones	Vaccination	 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures
		Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	ation: Oat crop may be	sown immediately.	
Fishery:	T ~	1	
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	 Lime/ Aqua magic should be applied regularly @ 20-30 kg/ha to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. Replace half of pond water with fresh & clean water at every 25-30 days interval. Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
*		Fish	 Male and female brooders should be stock in separate ponds for early breeding programs. harvesting of fish may be done in area where water availability is low.
		Feeding	- Feeds should be provided once a day.





ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





MANIPUR BULLETIN

9th January, 2018

<u>Thoubal</u>

Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 8 th January, 2018)	Weather forecast for next five days of Thoubal (10 th to 14 th January, 2018)
Observed fog at foothills during morning hours and clear sky	
during afternoon hours with no rainfall during past four days.	Likely to have dense fog at isolated places during morning hours
Maximum temperature range of 20.2 to 21.3 °C and minimum	and clear to partly cloudy sky during afternoon hours upto Sunday.
temperature range of 2.5 to 8.3 ° C with mean relative	The maximum temp. 17-18 ° C & minimum temp. 3-4 ° C and
humidity 93.25 % max and 50.75 % min was recorded in the	relative humidity may reach up to 88% (max RH) & 41% (min RH).
past four days.	The average wind speed may be 0-2 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Flowering to fruiting	Aphid	 Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing. or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
Lentil/ Blackgram	Vegetative to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
(late variety)/ Field Pea	flowering	Powdery mildew & rust	- Spray Bayleton @ 7g/ 10 litres of water. Or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Early vegetative		Light irrigation may be given to keep soil moist if the soil is dry.Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
			- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
Potato	Vegetative	Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Nursery raising		 Raise cucurbits like water-melon, cucumber, sponge gourd, etc. in poly-pouch and trays under polyhouse. Recommended varieties of water melon :- for small type: Water Baby; for big type: Madhavi-10.
Onion/ Garlic	Vegetative		- Apply 64kg Urea, 44kg DAP and 34 kg MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Cole crops	Nursery raising		- Nursery for late crops may be raised.
Citrus	For nursery	Leaf Minor Leaf eating caterpillar, thrips &	 Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery Spray Confidor @ 0.5 ml/ lit of water.
	For grown up	mite. Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray



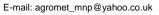
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	trees		Bayleton @7 g / 15 lit of water.
Tomato	Vegetative to flowering Sowing	Early blight	 Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water. Tomato nurseries should be raised under low cost polyhouse as the temperature is very low in open field. Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m²
			area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m ² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.
Animal Science	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Management	 Protect animals/ birds from cold. Cover the wall with hessian cloth/ polythene sheet during night time. Litter must be stirred frequently and aired every day.
Sheep/ Goat All age groups		Vaccination	 If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. Take adequate care to prevent occurrence of Mastitis. PPR immunization must be done once in every three years.
		• De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		Shearing for wool	• Sheep should be sheared during this month.
Pig	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	 Vaccination 	Vaccinate against FMD.
		 Skin disease 	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle exc	All age groups excepts the young ones	Vaccination	 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures
		Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
	ation: Oat crop may be	sown immediately.	
Fishery:	-		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	 Lime/ Aqua magic should be applied regularly @ 20-30 kg/ha to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. Replace half of pond water with fresh & clean water at every 25-30 days interval. Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
-		Fish	 Male and female brooders should be stock in separate ponds for early breeding programs. harvesting of fish may be done in area where water availability is low.
		Feeding	- Feeds should be provided once a day.





ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





MANIPUR BULLETIN

9th January, 2018

<u>Ukhrul</u>

Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 8 th January, 2018)	Weather forecast for next five days of Ukhrul (10 th to 14 th January, 2018)
Observed fog at foothills during morning hours and clear sky	
during afternoon hours with no rainfall during past four days.	Likely to have dense fog at isolated places during morning hours
Maximum temperature range of 20.2 to 21.3 °C and minimum	and clear to partly cloudy sky during afternoon hours upto Sunday.
temperature range of 2.5 to 8.3 ° C with mean relative	The maximum temp. 17-18 ° C & minimum temp. 4-5 ° C and
humidity 93.25 % max and 50.75 % min was recorded in the	relative humidity may reach up to 84% (max RH) & 40% (min RH).
past four days.	The average wind speed may be 3-4 km/hr.
past tour days.	The average wind speed may be 5-4 km/m.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Flowering to fruiting	Aphid	 Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing. or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
Lentil/ Blackgram	Vegetative to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
(late variety)/ Field Pea	flowering	Powdery mildew & rust	- Spray Bayleton @ 7g/ 10 litres of water. Or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Early vegetative		Light irrigation may be given to keep soil moist if the soil is dry.Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
			- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
Potato	Vegetative	Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	•		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Nursery raising		 Raise cucurbits like water-melon, cucumber, sponge gourd, etc. in poly-pouch and trays under polyhouse. Recommended varieties of water melon :- for small type: Water Baby; for big type: Madhavi-10.
Onion/ Garlic	Vegetative		- Apply 64kg Urea, 44kg DAP and 34 kg MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Cole crops	Nursery raising		- Nursery for late crops may be raised.
Citrus	For nursery	Leaf Minor Leaf eating caterpillar, thrips &	 Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery Spray Confidor @ 0.5 ml/ lit of water.
	For grown up	mite. Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray



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

	trees		Bayleton @7 g / 15 lit of water.
Tomato	Vegetative to	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of
	flowering		water. Also apply Dithane M 45 @ 2g/ litre of water.
	Sowing		- Tomato nurseries should be raised under low cost polyhouse as the temperature
			is very low in open field.
			- Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ $3m^2$
			area, keep the bed covered with gunny bag for at least 24 hrs.
			- Sow seeds @ $10g/3m^2$ area keep the bed covered with gunny bag. Seeds will
4 • 10 •			germinate in 4-5 days.
Animal Science			
Name of	Stage	Disease and	Agro-meteorological advisories
bird/ animal		Management	
Poultry	All age groups	 Management 	• Protect animals/ birds from cold. Cover the wall with hessian cloth/ polythene
(Chicken/			sheet during night time.
Duck)			• Litter must be stirred frequently and aired every day.
Sheep/ Goat	All age groups	 Vaccination 	• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,
			Enterotoxaemia, etc. this must be done during this month.
			• Take adequate care to prevent occurrence of Mastitis.
			• PPR immunization must be done once in every three years.
		• De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		Shearing for wool	• Sheep should be sheared during this month.
Pig	All age groups	 Coccidial infection 	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD.
		• Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups	 Vaccination 	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Cattle	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
			be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
			30ml for 100 kg body weight.
		• Care & Management	• Mixture of mineral/ salts should be added in the feed.
			• Avoid the cattle from chiting/biting by Flies
		Martitia	Adopt tick control measures
		Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
• Fodder cultive	ation: Oat crop may be	sown immediately	anniais.
Fishery:	anon. Out crop muy be	contrained autory.	
Type of	Stage	Management	Agro-metrological advisories
Farming	5		
			- Lime/ Aqua magic should be applied regularly @ 20-30 kg/ha to keep good
			quality pond water. Water depth should be maintained at 1.0-1.5m.
	Grow-out	Pond water	- Replace half of pond water with fresh & clean water at every 25-30 days
~ -			interval.
Carp culture	Sion out	T' 1	- Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding
			programs. - harvesting of fish may be done in area where water availability is low.
		Fooding	 - narvesting of fish may be done in area where water availability is low. - Feeds should be provided once a day.
		Feeding	- recus snould be provided once a day.





ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





MANIPUR BULLETIN

9th January, 2018

Imphal East

Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 8 th January, 2018)	Weather forecast for next five days of Imphal East (10 th to 14 th January, 2018)
Observed fog at foothills during morning hours and clear sky	
during afternoon hours with no rainfall during past four days.	Likely to have dense fog at isolated places during morning hours
Maximum temperature range of 20.2 to 21.3 °C and minimum	and clear to partly cloudy sky during afternoon hours upto Sunday.
temperature range of 2.5 to 8.3 ° C with mean relative	The maximum temp. 20-21 ° C & minimum temp. 2-4 ° C and
humidity 93.25 % max and 50.75 % min was recorded in the	relative humidity may reach up to 89% (max RH) & 38% (min RH).
past four days.	The average wind speed may be 0-2 km/hr.
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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Flowering to fruiting	Aphid	 Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing. or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
Lentil/ Blackgram	Vegetative to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
(late variety)/ Field Pea	flowering	Powdery mildew & rust	- Spray Bayleton @ 7g/ 10 litres of water. Or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Early vegetative		 Light irrigation may be given to keep soil moist if the soil is dry. Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
			- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
Potato	Vegetative	Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying an cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spra Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Nursery raising		 Raise cucurbits like water-melon, cucumber, sponge gourd, etc. in poly-pouch and trays under polyhouse. Recommended varieties of water melon :- for small type: Water Baby; for big type: Madhavi-10.
Onion/ Garlic	Vegetative		- Apply 64kg Urea, 44kg DAP and 34 kg MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Cole crops	Nursery raising		- Nursery for late crops may be raised.
Citrus	For nursery	Leaf Minor Leaf eating caterpillar, thrips & mite.	 Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery Spray Confidor @ 0.5 ml/ lit of water.
	For grown up	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray



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

	trees		Bayleton @7 g / 15 lit of water.
Tomato	Vegetative to	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of
	flowering		water. Also apply Dithane M 45 @ 2g/ litre of water.
	Sowing		- Tomato nurseries should be raised under low cost polyhouse as the temperature
			is very low in open field.
			- Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ $3m^2$
			area, keep the bed covered with gunny bag for at least 24 hrs.
			- Sow seeds @ $10g/3m^2$ area keep the bed covered with gunny bag. Seeds will
4 • 10 •			germinate in 4-5 days.
Animal Science	1		
Name of	Stage	Disease and	Agro-meteorological advisories
bird/ animal		Management	
Poultry	All age groups	 Management 	• Protect animals/ birds from cold. Cover the wall with hessian cloth/ polythene
(Chicken/			sheet during night time.
Duck)			• Litter must be stirred frequently and aired every day.
Sheep/ Goat	All age groups	 Vaccination 	• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,
			Enterotoxaemia, etc. this must be done during this month.
			• Take adequate care to prevent occurrence of Mastitis.
			• PPR immunization must be done once in every three years.
		• De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		Shearing for wool	• Sheep should be sheared during this month.
Pig	All age groups	 Coccidial infection 	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	• Vaccinate against FMD.
		• Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups	 Vaccination 	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Cattle	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
			be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
			30ml for 100 kg body weight.
		• Care & Management	• Mixture of mineral/ salts should be added in the feed.
			• Avoid the cattle from chiting/biting by Flies
		Martitia	Adopt tick control measures
		Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
• Fodder cultive	ation: Oat crop may be	sown immediately	annais.
Fishery:	anon. Out crop muy be	so an infinediatory.	
Type of	Stage	Management	Agro-metrological advisories
Farming	5		
			- Lime/ Aqua magic should be applied regularly @ 20-30 kg/ha to keep good
			quality pond water. Water depth should be maintained at 1.0-1.5m.
	Grow-out	Pond water	- Replace half of pond water with fresh & clean water at every 25-30 days
~ -			interval.
Carp culture	Sion out	T' 1	- Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding
			programs. - harvesting of fish may be done in area where water availability is low.
		Fooding	 - narvesting of fish may be done in area where water availability is low. - Feeds should be provided once a day.
		Feeding	- recus should be provided once a day.





ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

9th January, 2018

E-mail: agromet_mnp@yahoo.co.uk

Imphal West

Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 8 th January, 2018)	Weather forecast for next five days of Imphal West (10 th to 14 th January, 2018)
Observed fog at foothills during morning hours and clear sky	
during afternoon hours with no rainfall during past four days.	Likely to have dense fog at isolated places during morning hours
Maximum temperature range of 20.2 to 21.3 °C and minimum	and clear to partly cloudy sky during afternoon hours upto Sunday.
temperature range of 2.5 to 8.3 ° C with mean relative	The maximum temp. 20-21 ° C & minimum temp. 2-4 ° C and
humidity 93.25 % max and 50.75 % min was recorded in the	relative humidity may reach up to 89% (max RH) & 38% (min RH).
past four days.	The average wind speed may be 0-2 km/hr.
	· · · · · ·

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Flowering to fruiting	Aphid	 Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Downy mildew, Powdery mildew, white rust & Alternaria blight	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing. or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
Lentil/ Blackgram (late variety)/ Field Pea	Vegetative to flowering	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		Powdery mildew & rust	- Spray Bayleton @ 7g/ 10 litres of water. Or spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Early vegetative		Light irrigation may be given to keep soil moist if the soil is dry.Thinning may be done in vegetative stage for mustard or pea intercropped with maize.
Potato	Vegetative		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Nursery raising		 Raise cucurbits like water-melon, cucumber, sponge gourd, etc. in poly-pouch and trays under polyhouse. Recommended varieties of water melon :- for small type: Water Baby; for big type: Madhavi-10.
Onion/ Garlic	Vegetative		- Apply 64kg Urea, 44kg DAP and 34 kg MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Cole crops	Nursery raising		- Nursery for late crops may be raised.
Citrus	For nursery	Leaf Minor Leaf eating caterpillar, thrips & mite.	 Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery. Spray Confidor @ 0.5 ml/ lit of water.
	For grown up	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray



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

	trees		Bayleton @7 g / 15 lit of water.
Tomato	Vegetative to	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of
	flowering		water. Also apply Dithane M 45 @ 2g/ litre of water.
	Sowing		- Tomato nurseries should be raised under low cost polyhouse as the temperature
			is very low in open field.
			- Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ $3m^2$
			area, keep the bed covered with gunny bag for at least 24 hrs.
			- Sow seeds @ $10g/3m^2$ area keep the bed covered with gunny bag. Seeds will
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Animal Scienc	1		
Name of	Stage	Disease and	Agro-meteorological advisories
bird/ animal		Management	
Poultry	All age groups	 Management 	• Protect animals/ birds from cold. Cover the wall with hessian cloth/ polythene
(Chicken/			sheet during night time.
Duck)			• Litter must be stirred frequently and aired every day.
Sheep/ Goat	All age groups	 Vaccination 	• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,
			Enterotoxaemia, etc. this must be done during this month.
			• Take adequate care to prevent occurrence of Mastitis.
			• PPR immunization must be done once in every three years.
		• De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		Shearing for wool	• Sheep should be sheared during this month.
Pig	All age groups	 Coccidial infection 	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	 Vaccination 	• Vaccinate against FMD.
		 Skin disease 	• Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups	 Vaccination 	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Cattle	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
			be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
			30ml for 100 kg body weight.
		• Care & Management	• Mixture of mineral/ salts should be added in the feed.
			• Avoid the cattle from chiting/biting by Flies
			Adopt tick control measures
		Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals
• Fodder oulting	ation: Oat crop may be	sown immediately	animals.
• Fodder Cultiva	ation. Oat crop may be	sown miniculately.	
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Farming	Sunge		1-9-0 more or Brow and Portage
0			- Lime/ Aqua magic should be applied regularly @ 20-30 kg/ha to keep good
	Grow-out		quality pond water. Water depth should be maintained at 1.0-1.5m.
Carp culture		Pond water	- Replace half of pond water with fresh & clean water at every 25-30 days
			interval.
			- Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding
			programs.
			- harvesting of fish may be done in area where water availability is low.
		Feeding	- Feeds should be provided once a day.

