

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

12th January, 2018

Bishnupur

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 13th to 17th January, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th January, 2018)

Observed clear sky with **no** rainfall during past three days. Maximum temperature range of 21.0 to 21.7 $^{\circ}$ C and minimum temperature range of 3.7 to 4.0 $^{\circ}$ C with mean relative humidity 90.33 % max and 40.67 % min was recorded in the past three days.

Weather forecast for next five days of Bishnupur (13th to 17th January, 2018)

Likely to have dense to very dense fog at isolated places during morning hours and clear to partly cloudy sky during afternoon hours upto Wednesday. The maximum temp. 22-23 °C & minimum temp. 6°C and relative humidity may reach up to 87% (max RH) & 49% (min RH). The average wind speed may be 0-2 km/hr.

Field Crops	G4	D 4 1.19	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Donasad/		Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. If the infestation is severe, then spray a systemic insecticide i.e. dimethoate once.
Rapeseed/ Mustard/	Flowering to 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 (late variety)/	Vegetative to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
Field Pea	flowering	Powdery mildew & rust	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			174 on the Walls of Stores
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	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 trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.
Tomato	Vegetative to flowering	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.







	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/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	ees		
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. Provide Furavet Powder @ 1g/ 2 lit of drinking water and Vimeral @ 5 ml per lit of water. Provide external heat source such as "Meifu"/ chulhas or bulb. • Litter must be stirred frequently and aired every day.
		 Coccidiosis 	Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.
		Parasitic	Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
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.
		Management	 Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
one	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		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: 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.



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MANIPUR BULLETIN

12th January, 2018

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Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th January, 2018)

Observed clear sky with **no** rainfall during past three days. Maximum temperature range of 21.0 to 21.7 $^{\circ}$ C and minimum temperature range of 3.7 to 4.0 $^{\circ}$ C with mean relative humidity 90.33 % max and 40.67 % min was recorded in the past three days.

Weather forecast for next five days of Chandel (13th to 17th January, 2018)

Likely to have dense to very dense fog at isolated places during morning hours and clear to partly cloudy sky during afternoon hours upto Wednesday. The maximum temp. 19-21 °C & minimum temp. 4-6°C and relative humidity may reach up to 85% (max RH) & 54% (min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/	Flowering to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. If the infestation is severe, then spray a systemic insecticide i.e. dimethoate once.
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 (late variety)/	Vegetative to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
Field Pea	flowering	Powdery mildew & rust	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	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 trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.
Tomato	Vegetative to flowering	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.







	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/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	ees		
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. Provide Furavet Powder @ 1g/ 2 lit of drinking water and Vimeral @ 5 ml per lit of water. Provide external heat source such as "Meifu"/ chulhas or bulb. • Litter must be stirred frequently and aired every day.
		 Coccidiosis 	Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.
		Parasitic	Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
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.
		Management	 Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
one	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		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: 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.



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Observed clear sky with **no** rainfall during past three days. Maximum temperature range of 21.0 to 21.7 $^{\circ}$ C and minimum temperature range of 3.7 to 4.0 $^{\circ}$ C with mean relative humidity 90.33 % max and 40.67 % min was recorded in the past three days.

Weather forecast for next five days of Churachandpur (13th to 17th January, 2018)

Likely to have dense to very dense fog at isolated places during morning hours and clear to partly cloudy sky during afternoon hours upto Wednesday. The maximum temp. 22-23 °C & minimum temp. 4-6°C and relative humidity may reach up to 87% (max RH) & 49% (min RH). The average wind speed may be 0-2 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
D		Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. If the infestation is severe, then spray a systemic insecticide i.e. dimethoate once.
Rapeseed/ Mustard/	Flowering to 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 (late variety)/	Vegetative to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
Field Pea	flowering	Powdery mildew & rust	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	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 trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.
Tomato	Vegetative to flowering	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.







	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/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	ees		
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. Provide Furavet Powder @ 1g/ 2 lit of drinking water and Vimeral @ 5 ml per lit of water. Provide external heat source such as "Meifu"/ chulhas or bulb. • Litter must be stirred frequently and aired every day.
		 Coccidiosis 	Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.
		Parasitic	Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
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.
		Management	 Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
one	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		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: 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.



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Imphal East

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Weather forecast for next five days of Imphal East (13th to 17th January, 2018)

Likely to have dense to very dense fog at isolated places during morning hours and clear to partly cloudy sky during afternoon hours upto Wednesday. The maximum temp. $20\text{-}21\,^{\circ}\,\text{C}$ & minimum temp. $4\text{-}5\,^{\circ}\,\text{C}$ and relative humidity may reach up to 88% (max RH) & 46% (min RH). The average wind speed may be 2-4 km/hr.

Field Crops	04	D. 4 1 P	A consequence of a first contract of
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Donasad/		Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. If the infestation is severe, then spray a systemic insecticide i.e. dimethoate once.
Rapeseed/ Mustard/	Flowering to 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.
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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			174 on the Walls of Stores
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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 trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.
Tomato	Vegetative to flowering	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.







Animal Sciences		Sowing		- Tomato nurseries should be raised under low cost polyhouse as the temperature
area, keep the bed covered with gammy bag for at least 24 hrs.				is very low in open field.
Some seeds & 10g 3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.				
Animal Sciences				
Name of Stage Disease and Management				
Name of bird/ animal Stage Disease and Management	A 1 G			germinate in 4-5 days.
Protect animals			D' I	4 4 1 1 1 1 1
Protect animals birds from cold. Cover the wall with hessian clothy polythene (Chicken)		Stage		Agro-meteorological advisories
Chicken Duck Pure Coccidios Sheet during night time. Provide Furavet Powder 1g / 2 lit of drinking water and Vinneral @ 5 ml per lit of water. Provide external heat source such as "Mcifu" (bulhas or bulb.		A 11		
Pig	(Chicken/	All age groups	Management	sheet during night time. Provide Furavet Powder @ 1g/ 2 lit of drinking water and Vimeral @ 5 ml per lit of water. Provide external heat source such as
Parasitic Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.				Litter must be stirred frequently and aired every day.
Sheep/ Goat			Coccidiosis	
Sheep/ Goat All age groups			Parasitic	
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. All age groups except the young ones	Sheen/ Goat	All age groups	Vaccination	
Pig	encep, Gout			
PPR immunization must be done once in every three years. • De-worming • Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. • All age groups except the young ones • Coccidial infection • Offoxacine/ Ornidazole (O ₂) lab twice daily for 5 days. • De-worming • De-worm with Albendazole @7.5 mg/kg b. wt. • Vaccination • Vaccinate against FMD and Swine Fever. • Skin disease • Sprayer of Anti-Psoroptic may be used • 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 the treatment using the treatment using the treatment using with the help of Consultant must be advocated to safe the animals. • De-worming • 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 • Adequate care must be ensured for prevention of mastitis for the milch animals. • Fodder cultivation: Oat crop may be sown immediately. Fisherial Fish				
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• Fodder cultivation: Oat crop may be sown immediately. Fishery: Type of Farming Carp culture Grow-out Tishery: Carp culture Agro-metrological advisories - 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.				
Type of Farming Stage Management - 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.			Mastitis	
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Carp culture Grow-out Fish Fish Grow-out Grow-out Fish Fish Grow-out Fish Fish Fish Grow-out Fish		Stage	Management	
programs harvesting of fish may be done in area where water availability is low.	Carn culture	Grow-out	Pond water	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	programs.
			Feeding	- harvesting of this may be done in alea where water availability is low. - Feeds should be provided once a day.



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN

12th January, 2018

Imphal West

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 13th to 17th January, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th January, 2018)

Observed clear sky with **no** rainfall during past three days. Maximum temperature range of 21.0 to 21.7 $^{\circ}$ C and minimum temperature range of 3.7 to 4.0 $^{\circ}$ C with mean relative humidity 90.33 % max and 40.67 % min was recorded in the past three days.

Weather forecast for next five days of Imphal West (13th to 17th January, 2018)

Likely to have dense to very dense fog at isolated places during morning hours and clear to partly cloudy sky during afternoon hours upto Wednesday. The maximum temp. $20\text{-}21\,^{\circ}\,\text{C}$ & minimum temp. $4\text{-}5\,^{\circ}\,\text{C}$ and relative humidity may reach up to 88% (max RH) & 46% (min RH). The average wind speed may be 2-4 km/hr.

Field Crops Name of the crop	Stogo	Pest and disease	Agro-metagralagical advisarios
rvame of the crop	Stage		Agro-meteorological advisories
		Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil
			or Pyrethrin may be used.
Rapeseed/	Flowering to	Downy mildew,	If the infestation is severe, then spray a systemic insecticide i.e. dimethoate once. - Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing.
Mustard/	fruiting	Powdery mildew,	or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		white rust &	or spray Garne Build Extract (S1) @ 1% or Thenoderma narzianum.
		Alternaria blight	
			- For organic control against aphid, sprays that consist of Azadirachtin, neem oil
Lentil/ Blackgram	Vegetative to	Aphid	or Pyrethrin may be used.
(late variety)/	flowering	Powdery mildew &	Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and
Field Pea	Howering	rust	nimbicidin (0.3%) to control rust disease.
		Tust	- Light irrigation may be given to keep soil moist if the soil is dry.
Rabi Maize	Early vegetative		- Thinning may be done in vegetative stage for mustard or pea intercropped with
Kabi Maize	Early vegetative		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.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe,
		Apinu	spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of
Potato	Vegetative		water.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg
		Cut worm	husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near
			the stem of plant above the soil surface.
			For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying and
	Post harvest management		cleaning of seeds along with dry charcoal at 80:20. Check for moisture conten
Seeds storage			or weight of charcoal and dry if required.
50000550010050			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	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	- Spray Confidor @ 0.5 ml/ lit of water.
		caterpillar, thrips &	
		mite.	
	For grown up	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray
	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/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	ees		
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. Provide Furavet Powder @ 1g/ 2 lit of drinking water and Vimeral @ 5 ml per lit of water. Provide external heat source such as "Meifu"/ chulhas or bulb. • Litter must be stirred frequently and aired every day.
		 Coccidiosis 	Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.
		Parasitic	Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
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.
		Management	 Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
one	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		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: 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.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

12th January, 2018

Senapati

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 13th to 17th January, 2018 as below:

Significant past weather for the preceding bi-weekly of
Imphal - West (9 th to 11 th January, 2018)

Observed clear sky with **no** rainfall during past three days. Maximum temperature range of 21.0 to 21.7 $^{\circ}$ C and minimum temperature range of 3.7 to 4.0 $^{\circ}$ C with mean relative humidity 90.33 % max and 40.67 % min was recorded in the past three days.

Weather forecast for next five days of Senapati (13th to 17th January, 2018)

Likely to have dense to very dense fog at isolated places during morning hours and clear to partly cloudy sky during afternoon hours upto Wednesday. The maximum temp. 16-17 ° C & minimum temp. 3-4° C and relative humidity may reach up to 89% (max RH) & 46% (min RH). The average wind speed may be 2-4 km/hr.

Field Crops	- Cu	D (13)	
Name of the ci	cop Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/	Flowering to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. If the infestation is severe, then spray a systemic insecticide i.e. dimethoate once.
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/ Blackgr (late variety)/	am Vegetative to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
Field Pea	flowering	Powdery mildew & rust	Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Early vegetati	ve	 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.
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 Cr	ops		
Name of the ci		Pest and disease	Agro-meteorological advisories
Cole crops	Nursery raisir	ıg	- 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 trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.
Animal Science	S		
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. Provide Furavet Powder @ 1g/ 2 lit of drinking water and Vimeral @ 5 ml per lit of water. Provide external heat source such as "Meifu"/ chulhas or bulb.
			Litter must be stirred frequently and aired every day.
		Coccidiosis	Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.
		Parasitic	• Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
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.
		-	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.



Manipur Centre, Lamphelpat, Imphal - 795 004





"Gramin Krishi Mausam Seva"

		Management	Avoid dampness to protect from Pneumonia.		
			• Increase energy feed by 5%.		
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 and Swine Fever.		
		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 cul	Fodder cultivation: Oat crop may be sown immediately.				

(I. Meghachandra Singh) Scientist i/c, GKMS



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN

12th January, 2018

Tamenglong

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 13th to 17th January, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th January, 2018)

Observed clear sky with **no** rainfall during past three days. Maximum temperature range of 21.0 to 21.7 $^{\circ}$ C and minimum temperature range of 3.7 to 4.0 $^{\circ}$ C with mean relative humidity 90.33 % max and 40.67 % min was recorded in the past three days.

Weather forecast for next five days of Tamenglong (13th to 17th January, 2018)

Likely to have dense to very dense fog at isolated places during morning hours and clear to partly cloudy sky during afternoon hours upto Wednesday. The maximum temp. 16-17 ° C & minimum temp. 3-4° C and relative humidity may reach up to 89% (max RH) & 46% (min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/		Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. If the infestation is severe, then spray a systemic insecticide i.e. dimethoate once
Mustard/	Flowering to 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 (late variety)/	Vegetative to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
Field Pea	flowering	Powdery mildew & rust	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	I.		
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	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 trees	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.
Tomato	Vegetative to flowering	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.







	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/ 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	ees		
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. Provide Furavet Powder @ 1g/ 2 lit of drinking water and Vimeral @ 5 ml per lit of water. Provide external heat source such as "Meifu"/ chulhas or bulb. • Litter must be stirred frequently and aired every day.
		Coccidiosis	Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.
		Parasitic	Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
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.
		Management	 Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups except the young ones	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
		De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		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: 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.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

12th January, 2018

Thoubal

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 13th to 17th January, 2018 as below:

Significant past weather for the preceding bi-weekly of	
Imphal - West (9 th to 11 th January, 2018)	

Observed clear sky with **no** rainfall during past three days. Maximum temperature range of 21.0 to 21.7 $^{\circ}$ C and minimum temperature range of 3.7 to 4.0 $^{\circ}$ C with mean relative humidity 90.33 % max and 40.67 % min was recorded in the past three days.

Weather forecast for next five days of Thoubal (13th to 17th January, 2018)

Likely to have dense to very dense fog at isolated places during morning hours and clear to partly cloudy sky during afternoon hours upto Wednesday. The maximum temp. 22-23 °C & minimum temp. 6°C and relative humidity may reach up to 87% (max RH) & 49% (min RH). The average wind speed may be 0-2 km/hr.

Field Crops Name of the crop	Store	Dogt and discoss	Agno motocnological advisavica
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories - For organic control against aphid, sprays that consist of Azadirachtin, neem oil
		Aphid	or Pyrethrin may be used.
			If the infestation is severe, then spray a systemic insecticide i.e. dimethoate once
Rapeseed/	Flowering to	Downy mildew,	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing.
Mustard/	fruiting	Powdery mildew,	or spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
		white rust &	of spray Gaine Build Extract (S1) & 1/0 of Thenoderma narziandin.
		Alternaria blight	
T (11/15) 1		Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil
Lentil/ Blackgram	Vegetative to		or Pyrethrin may be used.
(late variety)/	flowering	Powdery mildew &	Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and
Field Pea		rust	nimbicidin (0.3%) to control rust disease.
			- Light irrigation may be given to keep soil moist if the soil is dry.
Rabi Maize	Early vegetative		- 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.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is sever-
Potato	Vegetative		spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of
1 00000			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.
	D 41		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying an
Coods stoness	Post harvest		cleaning of seeds along with dry charcoal at 80:20. Check for moisture conter or weight of charcoal and dry if required.
Seeds storage	management		For grains, store grains in well ventilated godowns after drying proper. Spra
			Malathion 1% on the walls of stores.
Horticulture Crops			Transmit 170 on the wants of stores.
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	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 nurser
	For muma : ::::	Leaf eating	- 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
	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/ 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	ees		
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. Provide Furavet Powder @ 1g/ 2 lit of drinking water and Vimeral @ 5 ml per lit of water. Provide external heat source such as "Meifu"/ chulhas or bulb. • Litter must be stirred frequently and aired every day.
		Coccidiosis	Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.
		Parasitic	Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
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.
		Management	 Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups except the young ones	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
		De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		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: 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.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

12th January, 2018

Ukhrul

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 13th to 17th January, 2018 as below:

Significant past weather for the preceding bi-weekly of				
Imphal - West (9 th to 11 th January, 2018)				
Observed clear sky with no reinfell during past three				

Weather forecast for next five days of Ukhrul (13th to 17th January, 2018)

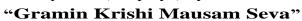
Observed clear sky with **no** rainfall during past three days. Maximum temperature range of 21.0 to 21.7 $^{\circ}$ C and minimum temperature range of 3.7 to 4.0 $^{\circ}$ C with mean relative humidity 90.33 % max and 40.67 % min was recorded in the past three days.

Likely to have dense to very dense fog at isolated places during morning hours and clear to partly cloudy sky during afternoon hours upto Wednesday. The maximum temp. 16-17 ° C & minimum temp. 3-4° C and relative humidity may reach up to 89% (max RH) & 46% (min RH). The average wind speed may be 2-4 km/hr.

Name of the cr	op S	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/	Flower		Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. If the infestation is severe, then spray a systemic insecticide i.e. dimethoate once.
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/ Blackgra (late variety)/	Vegeta		Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
Field Pea	flower	ng	Powdery mildew & rust	Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Early v	egetative		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.
Seeds storage	Post ha manag			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 Cro				
Name of the cr		Stage	Pest and disease	Agro-meteorological advisories
Cole crops	Nurser	y 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 nu	rsery	Leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For gro	own up	Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray Bayleton @7 g / 15 lit of water.
Animal Sciences				
Name of bird/ animal	Stage		Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age group			Protect animals/ birds from cold. Cover the wall with hessian cloth/ polythene sheet during night time. Provide Furavet Powder @ 1g/ 2 lit of drinking water and Vimeral @ 5 ml per lit of water. Provide external heat source such as "Meifu"/ chulhas or bulb.
	_			Litter must be stirred frequently and aired every day.
			Coccidiosis	Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.
			Parasitic Parasitic	• Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
Sheep/ Goat	All age group	s	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. DDD immunication must be done area in guarant three years.
		-	De-worming	PPR immunization must be done once in every three years. Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			שנייווווון ישניים י-	Aummister Tolzan-r & 2.3mi orany/ Joky 0. Wt.



Manipur Centre, Lamphelpat, Imphal - 795 004





		Management	 Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		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
	Itivation: Oat crop may be	Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.

(I. Meghachandra Singh) Scientist i/c, GKMS