

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

E-mail: agromet_mnp@yahoo.co.uk



MANIPUR BULLETIN

5th January, 2018

<u>Bishnupur</u>

Weather forecast for next five days of Bishnupur
(6 th to 10 th January, 2018)
Likely to have clear to partly cloudy sky during afternoon hours
upto Wednesday. The maximum temp. 22-24 °C & minimum temp.
7-8 °C and relative humidity may reach up to 100 % (max RH) &
40 % (min RH). The average wind speed may be 0-2 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Flowering	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.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
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 & Yellow rust	- Spray Bayleton @ 7g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
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	1		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Seed collection and 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.
Ginger/ Turmeric	Harvesting to storage		For storing, prepare pit/ trench. Bottom layer should be covered with river bed soil (20cm thick). Prepare a dry twigs layer on the walls of the pit, put the rhizomes inside the pit and cover the upper surface with dry twigs. Cover the upper layer with the river bed soil. Protect them from rain.
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.

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	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/ 3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.
Animal Scienc	ces		
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	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:			
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.
		Harvest	- As per market demand harvesting may be started. Stock fish for next year and for this practices mentioned below may be done in small scale.
		Feeding	- Feeds should be provided once a day.



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MANIPUR BULLETIN

5th January, 2018

<u>Chandel</u>

Weather forecast for next five days of Chandel
(6 th to 10 th January, 2018)
Likely to have clear to partly cloudy sky during afternoon hours
upto Wednesday. The maximum temp. 22-23 °C & minimum temp.
6-8 °C and relative humidity may reach up to 99 % (max RH) & 49
% (min RH). The average wind speed may be 3 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Flowering	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.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
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 & Yellow rust	- Spray Bayleton @ 7g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
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	1		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Seed collection and 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.
Ginger/ Turmeric	Harvesting to storage		For storing, prepare pit/ trench. Bottom layer should be covered with river bed soil (20cm thick). Prepare a dry twigs layer on the walls of the pit, put the rhizomes inside the pit and cover the upper surface with dry twigs. Cover the upper layer with the river bed soil. Protect them from rain.
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.

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	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/ 3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.
Animal Scienc	ces		
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	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:			
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.
		Harvest	- As per market demand harvesting may be started. Stock fish for next year and for this practices mentioned below may be done in small scale.
		Feeding	- Feeds should be provided once a day.



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5th January, 2018

MANIPUR BULLETIN

Churachandpur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur
Imphal - West (2 nd to 4 th January, 2018)	(6 th to 10 th January, 2018)
Observed overcast sky on 2 nd upto 3 rd Jan afternoon then	Likely to have clear to partly cloudy sky during afternoon hours upto Wednesday. The maximum temp. 22-23 °C & minimum temp. 6-7 °C and relative humidity may reach up to 100 % (max RH) &

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Flowering	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.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
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 & Yellow rust	- Spray Bayleton @ 7g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
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	1		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Seed collection and 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.
Ginger/ Turmeric	Harvesting to storage		For storing, prepare pit/ trench. Bottom layer should be covered with river bed soil (20cm thick). Prepare a dry twigs layer on the walls of the pit, put the rhizomes inside the pit and cover the upper surface with dry twigs. Cover the upper layer with the river bed soil. Protect them from rain.
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	1	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.

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	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/ 3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.
Animal Scienc	ces		
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	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:			
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.
		Harvest	- As per market demand harvesting may be started. Stock fish for next year and for this practices mentioned below may be done in small scale.
		Feeding	- Feeds should be provided once a day.



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MANIPUR BULLETIN

5th January, 2018

Imphal East

Weather forecast for next five days of Imphal East
(6 th to 10 th January, 2018)
Likely to have clear to partly cloudy sky during afternoon hours
upto Wednesday. The maximum temp. 22-23 °C & minimum temp.
6-8 ° C and relative humidity may reach up to 100 % (max RH) &
36 % (min RH). The average wind speed may be 0-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Flowering	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.
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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.
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	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/ 3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.
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MANIPUR BULLETIN

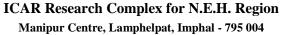
5th January, 2018

Imphal West

Weather forecast for next five days of Imphal West
(6 th to 10 th January, 2018)
Likely to have clear to partly cloudy sky during afternoon hours
upto Wednesday. The maximum temp. 22-23 °C & minimum temp.
6-8 ° C and relative humidity may reach up to 100% (max RH) &
37% (min RH). The average wind speed may be 2-5 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Flowering	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.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
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 & Yellow rust	- Spray Bayleton @ 7g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
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 contex 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	Seed collection and 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.
Ginger/ Turmeric	Harvesting to storage		For storing, prepare pit/ trench. Bottom layer should be covered with river bed soil (20cm thick). Prepare a dry twigs layer on the walls of the pit, put the rhizomes inside the pit and cover the upper surface with dry twigs. Cover the upper layer with the river bed soil. Protect them from rain.
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.

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	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/ 3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.
Animal Scienc	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	• 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:			
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.
		Harvest	- As per market demand harvesting may be started. Stock fish for next year and for this practices mentioned below may be done in small scale.
		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

5th January, 2018

<u>Senapati</u>

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 6th to 10th January, 2018 as below:

Weather forecast for next five days of Senapati
(6 th to 10 th January, 2018)
Likely to have clear to partly cloudy sky during afternoon hours
upto Wednesday. The maximum temp. 20-21 °C & minimum temp.
5-6 ° C and relative humidity may reach up to 100 % (max RH) &
31 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops		•		
Name of the	crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/		Flowering	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.
			Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
Lentil/ Blackg (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 & Yellow rust	- Spray Bayleton @ 7g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
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 C	Crops	<u>.</u>	·	
Name of the	crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric Harvesting to storage			For storing, prepare pit/ trench. Bottom layer should be covered with river bed soil (20cm thick). Prepare a dry twigs layer on the walls of the pit, put the rhizomes inside the pit and cover the upper surface with dry twigs. Cover the upper layer with the river bed soil. Protect them from rain.	
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 Science	es			
Name of bird/ animal	Stage		Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups • N		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 a	ge 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.

• De-worming

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

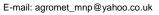


		Shearing for wool	• Sheep should be sheared during this month.
	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD.
		Skin disease	• Sprayer of 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.

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



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





MANIPUR BULLETIN

5th January, 2018

Tamenglong

Significant past weather for the preceding bi-weekly of Imphal - West (2 nd to 4 th January, 2018)	Weather forecast for next five days of Tamenglong (6 th to 10 th January, 2018)
Observed overcast sky on 2 nd upto 3 rd Jan afternoon then	
partly cloudy thereafter with 7.8 mm rainfall during past three	
days. Maximum temperature range of 20.2 to 21.3 °C and	
minimum temperature range of 8.7 to 11.0 ° C with mean	5-6 °C and relative humidity may reach up to 100 % (max RH) &
relative humidity 94.3 % max and 64.0 % min was recorded in	36 % (min RH). The average wind speed may be 2-4 km/hr.
the past three days.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Flowering	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.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
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 & Yellow rust	- Spray Bayleton @ 7g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
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 contex 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	4		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Seed collection and 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.
Ginger/ Turmeric	Harvesting to storage		For storing, prepare pit/ trench. Bottom layer should be covered with river bed soil (20cm thick). Prepare a dry twigs layer on the walls of the pit, put the rhizomes inside the pit and cover the upper surface with dry twigs. Cover the upper layer with the river bed soil. Protect them from rain.
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.

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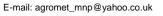
ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



	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/ 3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.
Animal Scienc	ces		
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	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:			
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.
		Harvest	- As per market demand harvesting may be started. Stock fish for next year and for this practices mentioned below may be done in small scale.
		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

5th January, 2018

<u>Thoubal</u>

Weather forecast for next five days of Thoubal
(6 th to 10 th January, 2018)
Likely to have clear to partly cloudy sky during afternoon hours
upto Wednesday. The maximum temp. 22-24 °C & minimum temp.
7-8 $^{\circ}$ C and relative humidity may reach up to 100 % (max RH) &
45 % (min RH). The average wind speed may be 0-2 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Flowering	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.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
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 & Yellow rust	- Spray Bayleton @ 7g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
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			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Seed collection and 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.
Ginger/ Turmeric	Harvesting to storage		For storing, prepare pit/ trench. Bottom layer should be covered with river bed soil (20cm thick). Prepare a dry twigs layer on the walls of the pit, put the rhizomes inside the pit and cover the upper surface with dry twigs. Cover the upper layer with the river bed soil. Protect them from rain.
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.

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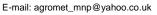
ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



	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/ 3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.
Animal Scienc	ces		
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	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:			
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.
		Harvest	- As per market demand harvesting may be started. Stock fish for next year and for this practices mentioned below may be done in small scale.
		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

5th January, 2018

<u>Ukhrul</u>

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 6th to 10th January, 2018 as below:

nrul
during afternoon hours
21 ° C & minimum temp.
p to 100 % (max RH) &
ay be 3-4 km/hr.
-
p t

Field Crops				
Name of the	crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/		Flowering	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.
			Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
Lentil/ Blackgram (late variety)/ Field Pea		Vegetative to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
		flowering	Powdery mildew & Yellow rust	- Spray Bayleton @ 7g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Maize Early vegetative		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 C	Crops	•		•
Name of the crop		Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric		Harvesting to storage		For storing, prepare pit/ trench. Bottom layer should be covered with river bed soil (20cm thick). Prepare a dry twigs layer on the walls of the pit, put the rhizomes inside the pit and cover the upper surface with dry twigs. Cover the upper layer with the river bed soil. Protect them from rain.
Citrus			Leaf Minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
Cittus		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 Scienc	es			
Name of	Stage		Disease and	Agro-meteorological advisories
bird/ animal			Management	
Poultry (Chicken/	All age groups		• Management	• Protect animals/ birds from cold. Cover the wall with hessian cloth/ polythene sheet during night time.
Duck)				• Litter must be stirred frequently and aired every day.
/		ge 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.
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• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.

• De-worming

E-mail: agromet_mnp@yahoo.co.uk



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		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	• 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	Vaccination	 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. 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.

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