

Field Crons

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

5th 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 6th to 10th January, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 4th 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 relative humidity 94.3 % max and 64.0 % min was recorded in the past three days.

Weather forecast for next five days of Bishnupur (6th to 10th January, 2018)

Likely to have clear to partly cloudy sky during afternoon hours upto Wednesday. The maximum temp. 22-24 $^{\circ}$ C & minimum temp. 7-8 $^{\circ}$ C and relative humidity may reach up to 100 $^{\circ}$ (max RH) & 40 $^{\circ}$ (min RH). The average wind speed may be 0-2 km/hr.

Field Crops Name of the crop	Stogo	Doct and discoss	Agra matagralagical advisories
rvame 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 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	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.







	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 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 Science	res	•	,
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:	T.a.	Lac	
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.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

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Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 4th 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 relative humidity 94.3 % max and 64.0 % min was recorded in the past three days.

Weather forecast for next five days of Chandel (6th to 10th 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 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	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.







	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 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 Science	res	•	,
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:	T.a.	Lac	
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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Churachandpur

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Weather forecast for next five days of Churachandpur (6th to 10th January, 2018)

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) & 38 % (min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Flowering	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 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	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.







	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 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 Science	res	•	,
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.
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Cattle	All age groups excepts the young ones	Vaccination	 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Care & Management	 Mixture of mineral/salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures
		Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
	ation: Oat crop may be	sown immediately.	
Fishery:	T.a.	Lac	
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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"Gramin Krishi Mausam Seva"



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Weather forecast for next five days of Imphal East (6th to 10th January, 2018)

Likely to have clear to partly cloudy sky during afternoon hours upto Wednesday. The maximum temp. 22-23 $^{\circ}$ C & minimum temp. 6-8 $^{\circ}$ C and relative humidity may reach up to 100 $^{\circ}$ (max RH) & 36 $^{\circ}$ (min RH). The average wind speed may be 0-4 km/hr.

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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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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:	T.a.	Lac	
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.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

5th 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 6th to 10th January, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 4th 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 relative humidity 94.3 % max and 64.0 % min was recorded in the past three days.

Weather forecast for next five days of Imphal West (6th to 10th 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.

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)/	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 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	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		Leaf Minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
	For nursery	Leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.







	For grown	up Powdery mildew	If powdery mildew is seen in the orchard, harvest mature fruits and spray
	trees		Bayleton @7 g / 15 lit of water.
Tomato	Vegetative flowering	to 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/3m ²
			area, keep the bed covered with gunny bag for at least 24 hrs.
			- Sow seeds @ 10g/3m ² area keep the bed covered with gunny bag. Seeds will
			germinate in 4-5 days.
Animal Science		T	
Name of	Stage	Disease and	Agro-meteorological advisories
bird/ animal	A 11	Management	
Poultry	All age groups	 Management 	Protect animals/ birds from cold. Cover the wall with hessian cloth/ polythene
(Chicken/			sheet during night time.
Duck)			Litter must be stirred frequently and aired every day.
Sheep/ Goat	All age groups	 Vaccination 	• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,
			Enterotoxaemia, etc. this must be done during this month.
			Take adequate care to prevent occurrence of Mastitis.
			PPR immunization must be done once in every three years.
		De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		 Shearing for wool 	• Sheep should be sheared during this month.
Pig	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Cattle	excepts the young		Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
		Deworming	 be advocated to safe the animals. De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
		Deworming	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
• Foddk'		an course immediatala	animals.
• Fodder cultiva Fishery:	auon: Oat crop may t	be sown immediately.	
Type of	Stage	Management	Agro-metrological advisories
Farming	, suge		1-9-0 mon orogress successor
· · · · · · · · · · · · · · · · · · ·			- 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.
		Pond water	- Replace half of pond water with fresh & clean water at every 25-30 days
Com or-lt	Grow-out		interval.
Carp culture			- 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.



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:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 4th 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 relative humidity 94.3 % max and 64.0 % min was recorded in the past three days.

Weather forecast for next five days of Senapati (6th to 10th January, 2018)

Likely to have clear to partly cloudy sky during afternoon hours upto Wednesday. The maximum temp. 20-21 $^{\circ}$ C & minimum temp. 5-6 $^{\circ}$ 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 o	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)/	ram	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	rops		·	
	Name of the crop Stage		Pest and disease	Agro-meteorological advisories
8		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 Early blight flowering		- 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 as	ge 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	/		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.



Manipur Centre, Lamphelpat, Imphal - 795 004





		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.

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



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

5th 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 6th to 10th January, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 4th 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 relative humidity 94.3 % max and 64.0 % min was recorded in the past three days.

Weather forecast for next five days of Tamenglong (6th to 10th January, 2018)

Likely to have clear to partly cloudy sky during afternoon hours upto Wednesday. The maximum temp. 20-21 $^{\circ}$ C & minimum temp. 5-6 $^{\circ}$ C and relative humidity may reach up to 100 % (max RH) & 36 % (min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/	Flowering	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 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	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.







	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 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 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. 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.
Ü	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:	T a.	Lac	
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.



Field Crons

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

5th 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 6th to 10th January, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 4th 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 relative humidity 94.3 % max and 64.0 % min was recorded in the past three days.

Weather forecast for next five days of Thoubal (6th to 10th January, 2018)

Likely to have clear to partly cloudy sky during afternoon hours upto Wednesday. The maximum temp. 22-24 $^{\circ}$ C & minimum temp. 7-8 $^{\circ}$ C and relative humidity may reach up to 100 $^{\circ}$ (max RH) & 45 $^{\circ}$ (min RH). The average wind speed may be 0-2 km/hr.

Field Crops Name of the crop	Stogo	Doct and discoss	Agra matagralagical advisories
rvame 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 flowering	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
Field Pea		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.
Potato	Vegetative		- If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	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.







	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 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 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. 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.
Ü	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:	T a.	Lac	
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.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

5th 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 6th to 10th January, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 4th 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 relative humidity 94.3 % max and 64.0 % min was recorded in the past three days.

Weather forecast for next five days of Ukhrul (6th to 10th January, 2018)

Likely to have clear to partly cloudy sky during afternoon hours upto Wednesday. The maximum temp. 20-21 $^{\circ}$ C & minimum temp. 5-6 $^{\circ}$ C and relative humidity may reach up to 100 % (max RH) & 45 % (min RH). The average wind speed may be 3-4 km/hr.

Field Crops				
Name of the o	Name of the crop Stage		Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/		Flowering	Aphid Hairy caterpillar	- 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. - Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
				- For organic control against aphid, sprays that consist of Azadirachtin, neem oil
Lentil/ Blackg	ram	Vegetative to	Aphid	or Pyrethrin may be used.
	(late variety)/ Field Pea		Powdery mildew &	- Spray Bayleton @ 7g/ 10 litres of water against powdery mildew and yellow
Field Pea			Yellow rust	rust especially to the crops grown in moist/ shady area.
Rabi Maize	bi 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.
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	rops		·	
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.
Citrus		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	Stage		Disease and	Agro-meteorological advisories
bird/ animal	~		Management	
Poultry	All a	ge groups	Management	Protect animals/ birds from cold. Cover the wall with hessian cloth/ polythene
(Chicken/			Ü	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.
			De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.



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		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