

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

13th February, 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 14th to 18th February, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (9th to 12th February, 2018)

Observed mainly clear to partly cloudy with **no** rainfall during past four days. Maximum temperature range of 23.5 to 27.3 $^{\circ}$ C and minimum temperature range of 8.0 to 11.7 $^{\circ}$ C with mean relative humidity 88.8 % max and 42.3 % min was recorded in the past four days.

Weather forecast for next five days of Bishnupur (14th to 18th February, 2018)

Likely to have light rains upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. 28-29 °C & minimum temp. 9-10 °C and relative humidity may reach up to 100 % (max RH) & 27 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops	C40.00	Dogt and discose	A one meteoral editionics
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery		- Maintain water level just to submerge the aerial sprouts and later increase the water level. Yellowing of tender leaves due to sucking by thrips and whorl maggot may be controlled by spraying Chloropyriphos 0.05% @ 2ml/lit of water.
Danagood/	Ciliana formation	Pieris brassica	If incidence of Pieris brassica is observed (which bore the pods of rapeseeds of mustard) then spray Coragen @ 2ml/15 lit of water.
Rapeseed/	Siliqua formation	Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water to the infected patches only.
Mustard	to maturity		Irrigation is essential at this stage for sustaining favorable condition for seed formation.
Field Pea/ Lentil/ Blackgram (late variety)	Fruiting and maturity		Retain well filled disease free mature pods for seeds.
D-L: M-!	Vegetative to pre-		If the soil is dry, give light irrigation to maintain soil moisture status.Weeding may be done.
Rabi Maize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Potato	Maturity to harvesting		For seed: Strict supervision on removal of unwanted plant type should be maintained. Maturity days should be strictly maintained as per variety. Harvest the crop after 10-15 days after haulm cutting.
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
Chilli/ capsicum	Nursery		In chilies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Land preparation and sowing		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.
Bhindi	Sowing		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
Cucurbits	Transplanting		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.







"Gramin Krishi Mausam Seva"	
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Onion	Bulb formation	on	- During the bulb formation stage check that the soil is not too dry also care should be taken that the neck portion should be above the ground level.
Cole crops	Nursery raisi	ng	- Nursery for late crops may be raised.
Tomato	Transplanting	3	- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening/ cloudy day. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.
Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Animal Science	ees		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	J Ranikhet disease	/ Vaccinate against Ranikhet disease.
(Chicken/		Coccidiosis	Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.
Duck)) Parasitic	J Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
Sheep/ Goat	All age groups) Vaccination	J If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. J Take adequate care to prevent occurrence of Mastitis. J PPR immunization must be done once in every three years.
		J De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
) Management	Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	ones) Vaccination	Vaccinate against FMD and Swine Fever.
) Skin disease	Sprayer of Anti-Psoroptic 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.
J Fodder cultiva	ation: Oat crop may be	sown immediately.	



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Significant past weather for the preceding bi-weekly of Imphal - West $(9^{th} \text{ to } 12^{th} \text{ February, } 2018)$

Observed mainly clear to partly cloudy with **no** rainfall during past four days. Maximum temperature range of 23.5 to 27.3 °C and minimum temperature range of 8.0 to 11.7 °C with mean relative humidity 88.8 % max and 42.3 % min was recorded in the past four days.

Weather forecast for next five days of Chandel (14th to 18th February, 2018)

Likely to have light rains upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. 26-27 °C & minimum temp. 7-8 °C and relative humidity may reach up to 96 % (max RH) & 28 % (min RH). The average wind speed may be 3-5 km/hr.

Field Crops				
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories	
Pre-kharif Rice	Nursery		- Maintain water level just to submerge the aerial sprouts and later increase the water level. Yellowing of tender leaves due to sucking by thrips and whorl maggot may be controlled by spraying Chloropyriphos 0.05% @ 2ml/lit of water.	
Donogood/	C:1: ft:	Pieris brassica	If incidence of Pieris brassica is observed (which bore the pods of rapeseeds of mustard) then spray Coragen @ 2ml/15 lit of water.	
Rapeseed/ Mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water to the infected patches only.	
Mustard	to maturity		Irrigation is essential at this stage for sustaining favorable condition for seed formation.	
Field Pea/ Lentil/ Blackgram (late variety)	Fruiting and maturity		Retain well filled disease free mature pods for seeds.	
	Vegetative to pre-		- If the soil is dry, give light irrigation to maintain soil moisture status Weeding may be done.	
Rabi Maize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.	
Potato	Maturity to harvesting		For seed: Strict supervision on removal of unwanted plant type should be maintained. Maturity days should be strictly maintained as per variety. Harvest the crop after 10-15 days after haulm cutting.	
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
Chilli/ capsicum	Nursery		In chilies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Land preparation and sowing		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.
Bhindi	Sowing		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
Cucurbits	Transplanting		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.







Onion	Bulb formation	on	- During the bulb formation stage check that the soil is not too dry also care should be taken that the neck portion should be above the ground level.
Cole crops	Nursery raisi	ng	- Nursery for late crops may be raised.
Tomato	Transplanting		- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening/ cloudy day. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.
Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Animal Science		,	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	J Ranikhet disease	J Vaccinate against Ranikhet disease.
(Chicken/		J Coccidiosis	J Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.
Duck)		J Parasitic	J Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
Sheep/ Goat	All age groups) Vaccination	 If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. Take adequate care to prevent occurrence of Mastitis. PPR immunization must be done once in every three years.
		De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		J Management	Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young ones	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	olles	J Vaccination	Vaccinate against FMD and Swine Fever.
		J Skin disease	Sprayer of Anti-Psoroptic 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.
		J 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.
J Fodder cultiva	tion: Oat crop may be	sown immediately.	



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Observed mainly clear to partly cloudy with **no** rainfall during past four days. Maximum temperature range of 23.5 to 27.3 °C and minimum temperature range of 8.0 to 11.7 °C with mean relative humidity 88.8 % max and 42.3 % min was recorded in the past four days.

Weather forecast for next five days of Churachandpur (14th to 18th February, 2018)

Likely to have light rains upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. 25-26 °C & minimum temp. 8-9 °C and relative humidity may reach up to 100 % (max RH) & 29 % (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
Pre-kharif Rice	Nursery		- Maintain water level just to submerge the aerial sprouts and later increase the water level. Yellowing of tender leaves due to sucking by thrips and whorl maggot may be controlled by spraying Chloropyriphos 0.05% @ 2ml/lit of water.
Rapeseed/	Siliqua formation	Pieris brassica	If incidence of Pieris brassica is observed (which bore the pods of rapeseeds of mustard) then spray Coragen @ 2ml/15 lit of water.
Mustard	to maturity	Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water to the infected patches only.
			Irrigation is essential at this stage for sustaining favorable condition for seed formation.
Field Pea/ Lentil/ Blackgram (late variety)	Fruiting and maturity		Retain well filled disease free mature pods for seeds.
D 1:34 :	Vegetative to pre-		If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done.
Rabi Maize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Potato	Maturity to harvesting		For seed: Strict supervision on removal of unwanted plant type should be maintained. Maturity days should be strictly maintained as per variety. Harvest the crop after 10-15 days after haulm cutting.
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
Chilli/ capsicum	Nursery		In chilies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Land preparation and sowing		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.
Bhindi	Sowing		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
Cucurbits	Transplanting		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.







Onion	Bulb formation	on	- During the bulb formation stage check that the soil is not too dry also care should be taken that the neck portion should be above the ground level.
Cole crops	Nursery raisi	ng	- Nursery for late crops may be raised.
Tomato	Transplanting		- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening/ cloudy day. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.
Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Animal Scienc		1	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	J Ranikhet disease	J Vaccinate against Ranikhet disease.
(Chicken/) Coccidiosis	J Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.
Duck)		J Parasitic	J Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
Sheep/ Goat	All age groups) Vaccination	J If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. J Take adequate care to prevent occurrence of Mastitis. J PPR immunization must be done once in every three years.
		De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		J Management	Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young ones	J De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	olles	J Vaccination	Vaccinate against FMD and Swine Fever.
		J Skin disease	Sprayer of Anti-Psoroptic 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.
		J 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.
J Fodder cultiva	tion: Oat crop may be	sown immediately.	



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Weather forecast for next five days of Imphal East (14th to 18th February, 2018)

Likely to have light rains upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. 27-28 °C & minimum temp. 8-10 °C and relative humidity may reach up to 100 % (max RH) & 22 % (min RH). The average wind speed may be 0-5 km/hr.

Field Crops				
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories	
Pre-kharif Rice	Nursery		- Maintain water level just to submerge the aerial sprouts and later increase the water level. Yellowing of tender leaves due to sucking by thrips and whorl maggot may be controlled by spraying Chloropyriphos 0.05% @ 2ml/lit of water.	
Rapeseed/	Siliqua formation	Pieris brassica	If incidence of Pieris brassica is observed (which bore the pods of rapeseeds of mustard) then spray Coragen @ 2ml/15 lit of water.	
Mustard	to maturity	Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water to the infected patches only.	
Wittstart	to inacerity		Irrigation is essential at this stage for sustaining favorable condition for seed formation.	
Field Pea/ Lentil/ Blackgram (late variety)	Fruiting and maturity		Retain well filled disease free mature pods for seeds.	
D 1115 1	Vegetative to pre-		If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done.	
Rabi Maize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.	
Potato	Maturity to harvesting		For seed: Strict supervision on removal of unwanted plant type should be maintained. Maturity days should be strictly maintained as per variety. Harvest the crop after 10-15 days after haulm cutting.	
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

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	and sowing		varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and
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Cucurbits	Transplanting		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If
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Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
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Duck)		J Parasitic) Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
Sheep/ Goat All age groups) Vaccination	J 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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	-) Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
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Fodder cultiva	tion: Oat crop may be	sown immediately.	



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13th February, 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 14th to 18th February, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (9th to 12th February, 2018)

Observed mainly clear to partly cloudy with **no** rainfall during past four days. Maximum temperature range of 23.5 to 27.3 °C and minimum temperature range of 8.0 to 11.7 °C with mean relative humidity 88.8 % max and 42.3 % min was recorded in the past four days.

Weather forecast for next five days of Imphal West (14th to 18th February, 2018)

Likely to have light rains upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. 27-28 $^{\circ}$ C & minimum temp. 8-10 $^{\circ}$ C and relative humidity may reach up to 100 $^{\circ}$ C (max RH) & 26 $^{\circ}$ C (min RH). The average wind speed may be 0-5 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery		- Maintain water level just to submerge the aerial sprouts and later increase the water level. Yellowing of tender leaves due to sucking by thrips and whorl maggot may be controlled by spraying Chloropyriphos 0.05% @ 2ml/lit of water.
Donogood/	C:1: ft:	Pieris brassica	If incidence of Pieris brassica is observed (which bore the pods of rapeseeds of mustard) then spray Coragen @ 2ml/15 lit of water.
Rapeseed/ Mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water to the infected patches only.
Mustard	to maturity		Irrigation is essential at this stage for sustaining favorable condition for seed formation.
Field Pea/ Lentil/ Blackgram (late variety)	Fruiting and maturity		Retain well filled disease free mature pods for seeds.
D 1134	Vegetative to pre-		If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done.
Rabi Maize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Potato	Maturity to harvesting		For seed: Strict supervision on removal of unwanted plant type should be maintained. Maturity days should be strictly maintained as per variety. Harvest the crop after 10-15 days after haulm cutting.
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

moisture.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Chilli/ capsicum	Nursery		In chilies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Land preparation and sowing		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.
Bhindi	Sowing		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
Cucurbits	Transplanting		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.







Onion	Bulb formation	on	- During the bulb formation stage check that the soil is not too dry also care should be taken that the neck portion should be above the ground level.
Cole crops	Nursery raisi	ng	- Nursery for late crops may be raised.
Tomato	Transplanting		- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening/ cloudy day. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.
Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Animal Science		1	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	J Ranikhet disease) Vaccinate against Ranikhet disease.
(Chicken/) Coccidiosis) Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.
Duck)		J Parasitic) Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
Sheep/ Goat All age groups) Vaccination	J 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.
		J De-worming	J Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
) Management	Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	JOfloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		J Skin disease	Sprayer of Anti-Psoroptic may be used
Cattle	All age groups excepts the young ones	J 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.
Fodder cultiva	tion: Oat crop may be	sown immediately.	



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

13th February, 2018

Senapati

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 14th to 18th February, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (9th to 12th February, 2018)

Observed mainly clear to partly cloudy with **no** rainfall during past four days. Maximum temperature range of 23.5 to 27.3 °C and minimum temperature range of 8.0 to 11.7 °C with mean relative humidity 88.8 % max and 42.3 % min was recorded in the past four days.

Weather forecast for next five days of Senapati (14th to 18th February, 2018)

Likely to have light rains upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. 25-26 °C & minimum temp. 5-7 °C and relative humidity may reach up to 100 % (max RH) & 24 % (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	
Pre-kharif Rice	Nursery		- Maintain water level just to submerge the aerial sprouts and later increase the water level. Yellowing of tender leaves due to sucking by thrips and whorl maggot may be controlled by spraying Chloropyriphos 0.05% @ 2ml/lit of water.	
Damagaad/	G.1. C '.	Pieris brassica	If incidence of Pieris brassica is observed (which bore the pods of rapeseeds of mustard) then spray Coragen @ 2ml/15 lit of water.	
Rapeseed/	Siliqua formation	Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water to the infected patches only.	
Mustard	to maturity		Irrigation is essential at this stage for sustaining favorable condition for seed formation.	
Field Pea/ Lentil/ Blackgram (late variety)	Fruiting and maturity		Retain well filled disease free mature pods for seeds.	
D 1:34 :	Vegetative to pre-		If the soil is dry, give light irrigation to maintain soil moisture status.Weeding may be done.	
Rabi Maize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.	
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

^{*} Life saving irrigation to passion fruit, pineapple and other fruit crops may be applied and mulch with dry grass at the basin to conserve the soil moisture.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Chilli/ capsicum	Nursery		In chilies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Land preparation and sowing		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.
Bhindi	Sowing		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
Cucurbits	Transplanting		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.



Manipur Centre, Lamphelpat, Imphal - 795 004





Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Animal Scienc	es		1 21/3 12 13:11:1
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	J Ranikhet disease	Vaccinate against Ranikhet disease.
(Chicken/		Coccidiosis	Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.
Duck)) Parasitic	Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
Sheep/ Goat	All age groups	J Vaccination	J If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. J Take adequate care to prevent occurrence of Mastitis. J PPR immunization must be done once in every three years.
		De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
) Management	Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		Skin disease	Sprayer of Anti-Psoroptic 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

13th February, 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 14th to 18th February, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (9th to 12th February, 2018)

Observed mainly clear to partly cloudy with **no** rainfall during past four days. Maximum temperature range of 23.5 to 27.3 $^{\circ}$ C and minimum temperature range of 8.0 to 11.7 $^{\circ}$ C with mean relative humidity 88.8 % max and 42.3 % min was recorded in the past four days.

Weather forecast for next five days of Tamenglong (14th to 18th February, 2018)

Likely to have light rains upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. 25-26 °C & minimum temp. 6-7 °C and relative humidity may reach up to 94 % (max RH) & 25 % (min RH). The average wind speed may be 3-4 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery		- Maintain water level just to submerge the aerial sprouts and later increase the water level. Yellowing of tender leaves due to sucking by thrips and whorl maggot may be controlled by spraying Chloropyriphos 0.05% @ 2ml/lit of water.
Danagaed/	G:1: fti	Pieris brassica	If incidence of Pieris brassica is observed (which bore the pods of rapeseeds of mustard) then spray Coragen @ 2ml/15 lit of water.
Rapeseed/	Siliqua formation to maturity	Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water to the infected patches only.
Mustard	to maturity		Irrigation is essential at this stage for sustaining favorable condition for seed formation.
Field Pea/ Lentil/ Blackgram (late variety)	Fruiting and maturity		Retain well filled disease free mature pods for seeds.
D 1.34.	Vegetative to pre-		If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done.
Rahi Maize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Potato	Maturity to harvesting		For seed: Strict supervision on removal of unwanted plant type should be maintained. Maturity days should be strictly maintained as per variety. Harvest the crop after 10-15 days after haulm cutting.
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

moisture.	1		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Chilli/ capsicum	Nursery		In chilies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Land preparation and sowing		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.
Bhindi	Sowing		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
Cucurbits	Transplanting		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.







"Gramin Krishi Mausam Seva"	
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Onion	Bulb formation	on	- During the bulb formation stage check that the soil is not too dry also care should be taken that the neck portion should be above the ground level.
Cole crops	Nursery raisi	ng	- Nursery for late crops may be raised.
Tomato Transplanting		3	- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening/ cloudy day. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.
Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Animal Science	ees		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	J Ranikhet disease	/ Vaccinate against Ranikhet disease.
(Chicken/		Coccidiosis	Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.
Duck)) Parasitic	J Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
Sheep/ Goat	All age groups) Vaccination	J If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. J Take adequate care to prevent occurrence of Mastitis. J PPR immunization must be done once in every three years.
		J De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
) Management	Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	ones) Vaccination	Vaccinate against FMD and Swine Fever.
) Skin disease	Sprayer of Anti-Psoroptic 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.
J Fodder cultiva	ation: Oat crop may be	sown immediately.	



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

13th February, 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 14th to 18th February, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (9th to 12th February, 2018)

Observed mainly clear to partly cloudy with **no** rainfall during past four days. Maximum temperature range of 23.5 to 27.3 °C and minimum temperature range of 8.0 to 11.7 °C with mean relative humidity 88.8 % max and 42.3 % min was recorded in the past four days.

Weather forecast for next five days of Thoubal (14th to 18th February, 2018)

Likely to have light rains upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. 28-29 °C & minimum temp. 9-10 °C and relative humidity may reach up to 100 % (max RH) & 25 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops	Store	Pest and disease	A ano motocological advisanies
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery		- Maintain water level just to submerge the aerial sprouts and later increase the water level. Yellowing of tender leaves due to sucking by thrips and whorl maggot may be controlled by spraying Chloropyriphos 0.05% @ 2ml/lit of water.
Danagood/	Ciliana formation	Pieris brassica	If incidence of Pieris brassica is observed (which bore the pods of rapeseeds of mustard) then spray Coragen @ 2ml/15 lit of water.
Rapeseed/	Siliqua formation	Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water to the infected patches only.
Mustard	to maturity		Irrigation is essential at this stage for sustaining favorable condition for seed formation.
Field Pea/ Lentil/ Blackgram (late variety)	Fruiting and maturity		Retain well filled disease free mature pods for seeds.
D-L: M-!	Vegetative to pre- flowering		If the soil is dry, give light irrigation to maintain soil moisture status.Weeding may be done.
Rabi Maize		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Potato	Maturity to harvesting		For seed: Strict supervision on removal of unwanted plant type should be maintained. Maturity days should be strictly maintained as per variety. Harvest the crop after 10-15 days after haulm cutting.
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

moisture.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Chilli/ capsicum	Nursery		In chilies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Land preparation and sowing		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.
Bhindi	Sowing		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
Cucurbits	Transplanting		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.







Onion	Bulb formation	on	- During the bulb formation stage check that the soil is not too dry also care should be taken that the neck portion should be above the ground level.
Cole crops	Nursery raisii	ng	- Nursery for late crops may be raised.
Tomato	Transplanting		- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening/ cloudy day. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.
Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Animal Science		,	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	J Ranikhet disease) Vaccinate against Ranikhet disease.
(Chicken/		J Coccidiosis) Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.
Duck)		J Parasitic) Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
Sheep/ Goat All age groups		Vaccination De-worming	J If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. J Take adequate care to prevent occurrence of Mastitis. J PPR immunization must be done once in every three years. J Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		J Management	Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig All age groups		Coccidial infection	JOfloxacine/ 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	J Vaccination	Vaccinate against FMD and Swine Fever.
		Skin disease	Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle exce	All age groups excepts the young ones) Vaccination	 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
) Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		J 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.
J Fodder cultiva	ntion: Oat crop may be	sown immediately.	



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

13th February, 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 14th to 18th February, 2018 as below:

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Weather forecast for next five days of Ukhrul (14th to 18th February, 2018)

Likely to have light rains upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. 25-26 °C & minimum temp. 6-7 °C and relative humidity may reach up to 98 % (max RH) & 28 % (min RH). The average wind speed may be 3-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery		- Maintain water level just to submerge the aerial sprouts and later increase the water level. Yellowing of tender leaves due to sucking by thrips and whorl maggot may be controlled by spraying Chloropyriphos 0.05% @ 2ml/lit of water.
Rapeseed/ Mustard	Siliqua formation to maturity	Pieris brassica Hairy caterpillar	If incidence of Pieris brassica is observed (which bore the pods of rapeseeds of mustard) then spray Coragen @ 2ml/15 lit of water. - Spray Chloropyriphos @ 2ml/litre of water to the infected patches only.
		riany caterpinai	Irrigation is essential at this stage for sustaining favorable condition for seed formation.
Field Pea/ Lentil/ Blackgram (late variety)	Fruiting and maturity		Retain well filled disease free mature pods for seeds.
Rabi Maize	Vegetative to pre- flowering		If the soil is dry, give light irrigation to maintain soil moisture status.Weeding may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
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

^{*} Life saving irrigation to passion fruit, pineapple and other fruit crops may be applied and mulch with dry grass at the basin to conserve the soil moisture.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Chilli/ capsicum	Nursery		In chilies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Land preparation and sowing		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.
Bhindi	Sowing		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
Cucurbits	Transplanting		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.



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Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Animal Scienc	es		1 21/3 12 13:11:1
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry All age groups		J Ranikhet disease	Vaccinate against Ranikhet disease.
(Chicken/ Duck)		Coccidiosis	Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.
) Parasitic	Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
Sheep/ Goat	All age groups	J Vaccination	J If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. J Take adequate care to prevent occurrence of Mastitis. J PPR immunization must be done once in every three years.
		De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
) Management	Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young ones	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
C		Vaccination	Vaccinate against FMD and Swine Fever.
		Skin disease	Sprayer of Anti-Psoroptic may be used
Cattle e:	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.

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