

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

E-mail: agromet_mnp@yahoo.co.uk Region



MANIPUR BULLETIN

20th February, 2018

<u>Bishnupur</u>

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 19 th February, 2018)	Weather forecast for next five days of Bishnupur (21 st to 25 th February, 2018)
Observed mainly clear to partly cloudy with no rainfall during past four days. Maximum temperature range of 26.5 to 27.2 °C and minimum temperature range of 7.1 to 7.5 °C with mean relative humidity 91.0 % max and 32.8 % min was recorded in the past four days.	cloudy sky. The maximum temp. 27-28 °C & minimum temp. 9-10 °C and relative humidity may reach up to 89 % (max RH) & 39 %

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to land preparation of main field and direct seeding		 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. Land preparation of main field may be started. Irrigate the field upto 5-7 cm after a cross plough. Submerge the plot 15-20 days before the expected date of transplanting to obtain weed free plot. For broadcasting, seeds should be uniformly sprouted before sowing.
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. 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. Spray Propiconazole @ 1ml/ litre of water or Sulfax @ 2g/ litre of water for management of rust/ powdery mildew and downey mildew disease.
	Manadation to mar		 If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done.
Rabi Maize	Rabi Maize Vegetative to pre- flowering	Stem borer	 - To control the infestation of stem borer, apply few granules of Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		 If late blight is observed in potato, spray Mencozeb @ 2-3 g/ litre at 7 days interval for 3 times in severe case. 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 conten or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
			crops. Apply mulch with dry grass at the basin to conserve the soil moisture.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Banana			- For planting banana make pits of size 50x50x50cm. Fill the pit with top soil and well decomposed FYM/ compost 2-4 weeks before planting sucker.
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		 Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started. Collection of good planting material from reliable source may be done.
Ginger/ Turmeric	Land preparation		- Land preparation for planting of ginger/ turmeric may be started. Mix manures @ 20-25 t/ ha 15 days before planting.
Chilli/ capsicum	Nursery		In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.



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French bean	Sowing to		- Sowing of French bean may be done in prepared land. Seed rate for dwar
French Dean	vegetative		varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) an
	C		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 to vegetative			- 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
	vegetative		and 25kg MOP per sangam at final stage of land preparation before sowing.
			- Give light irrigation after 2-3 days of sowing.
Cucurbits Transplanting		g	- 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 formati	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	2	- 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.
Animal Scienc		1	1
Name of	Stage	Disease and	Agro-meteorological advisories
bird/ animal	4.11	Management	
Poultry	All age groups	Ranikhet disease	Vaccinate against Ranikhet disease.
(Chicken/ Duck)		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	 Vaccination 	• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,
			Enterotoxaemia, etc. this must be done during this month.Take adequate care to prevent occurrence of Mastitis.
			 PPR immunization must be done once in every three years.
		• De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		Management	Avoid dampness to protect from Pneumonia.
			• Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Cattle	excepts the young ones		• Cases of H.S. may be encountered during this period
Cattle			• Immediate treatment using appropriate drugs with the help of Consultant must
Cattle	ones		be advocated to safe the animals
Cattle	ones	• Deworming	 be advocated to safe the animals. De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 20ml for 100 kg back any intervention.
Cattle	ones		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
Cattle	ones	Deworming Care & Management	 De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight. Mixture of mineral/ salts should be added in the feed.
Cattle	ones		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.



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MANIPUR BULLETIN

20th February, 2018

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<u>Chandel</u>

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 19 th February, 2018)	Weather forecast for next five days of Chandel (21 st to 25 th February, 2018)
Observed mainly clear to partly cloudy with no rainfall during past four days. Maximum temperature range of 26.5 to 27.2 °C and minimum temperature range of 7.1 to 7.5 °C with mean relative humidity 91.0 % max and 32.8 % min was recorded in the past four days.	cloudy sky. The maximum temp. 25-26 °C & minimum temp. 7-8

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to land preparation of main field and direct seeding		 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. Land preparation of main field may be started. Irrigate the field upto 5-7 cm after a cross plough. Submerge the plot 15-20 days before the expected date of transplanting to obtain weed free plot. For broadcasting, seeds should be uniformly sprouted before sowing.
Rapeseed/	-	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		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. Spray Propiconazole @ 1ml/ litre of water or Sulfax @ 2g/ litre of water for management of rust/ powdery mildew and downey mildew disease.
	Vegetative to pre-		 If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done.
	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		 If late blight is observed in potato, spray Mencozeb @ 2-3 g/ litre at 7 days interval for 3 times in severe case. 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	tion to passion fruit r	ineapple and other fruit	t crops. Apply mulch with dry grass at the basin to conserve the soil moisture.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Banana	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		- For planting banana make pits of size 50x50x50cm. Fill the pit with top soil and well decomposed FYM/ compost 2-4 weeks before planting sucker.
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		 Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started. Collection of good planting material from reliable source may be done.
Ginger/ Turmeric	Land preparation		- Land preparation for planting of ginger/ turmeric may be started. Mix manures @ 20-25 t/ ha 15 days before planting.
Chilli/ capsicum	Nursery		In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.



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French bean	Sowing to		- Sowing of French bean may be done in prepared land. Seed rate for dwar
French Dean	vegetative		varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) an
	C		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 to vegetative			- 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
	vegetative		and 25kg MOP per sangam at final stage of land preparation before sowing.
			- Give light irrigation after 2-3 days of sowing.
Cucurbits Transplanting		g	- 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 formati	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	2	- 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.
Animal Scienc		1	1
Name of	Stage	Disease and	Agro-meteorological advisories
bird/ animal	4.11	Management	
Poultry	All age groups	Ranikhet disease	Vaccinate against Ranikhet disease.
(Chicken/ Duck)		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	 Vaccination 	• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,
			Enterotoxaemia, etc. this must be done during this month.Take adequate care to prevent occurrence of Mastitis.
			 PPR immunization must be done once in every three years.
		• De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		Management	Avoid dampness to protect from Pneumonia.
			• Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Cattle	excepts the young ones		• Cases of H.S. may be encountered during this period
Cattle			• Immediate treatment using appropriate drugs with the help of Consultant must
Cattle	ones		be advocated to safe the animals
Cattle	ones	• Deworming	 be advocated to safe the animals. De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 20ml for 100 kg back any intervention.
Cattle	ones		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
Cattle	ones	Deworming Care & Management	 De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight. Mixture of mineral/ salts should be added in the feed.
Cattle	ones		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.



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MANIPUR BULLETIN

20th February, 2018

Churachandpur

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 19 th February, 2018)	Weather forecast for next five days of Churachandpur (21 st to 25 th February, 2018)
Observed mainly clear to partly cloudy with no rainfall during past four days. Maximum temperature range of 26.5 to 27.2 °C and minimum temperature range of 7.1 to 7.5 °C with mean relative humidity 91.0 % max and 32.8 % min was recorded in the past four days.	cloudy sky. The maximum temp. 26-27 °C & minimum temp. 8-9

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to land preparation of main field and direct seeding		 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. Land preparation of main field may be started. Irrigate the field upto 5-7 cm after a cross plough. Submerge the plot 15-20 days before the expected date of transplanting to obtain weed free plot. For broadcasting, seeds should be uniformly sprouted before sowing.
Rapeseed/ Mustard	-	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. 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. Spray Propiconazole @ 1ml/ litre of water or Sulfax @ 2g/ litre of water for management of rust/ powdery mildew and downey mildew disease.
Rabi MaizeVegetative to pre- flowering	Vagatativa to pro		 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 Carbofuradar 3G at maize whorl. 	
Potato	Maturity to harvesting		 If late blight is observed in potato, spray Mencozeb @ 2-3 g/ litre at 7 days interval for 3 times in severe case. 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			
			t crops. Apply mulch with dry grass at the basin to conserve the soil moisture.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Banana			- For planting banana make pits of size 50x50x50cm. Fill the pit with top soil and well decomposed FYM/ compost 2-4 weeks before planting sucker.
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		 Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started. Collection of good planting material from reliable source may be done.
Ginger/ Turmeric	Land preparation		- Land preparation for planting of ginger/ turmeric may be started. Mix manures @ 20-25 t/ ha 15 days before planting.
Chilli/ capsicum	Nursery		In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.



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French bean	Sowing to		- Sowing of French bean may be done in prepared land. Seed rate for dwar
French Dean	vegetative		varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) an
	C		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 to vegetative			- 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
	vegetative		and 25kg MOP per sangam at final stage of land preparation before sowing.
			- Give light irrigation after 2-3 days of sowing.
Cucurbits Transplanting		g	- 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 formati	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	2	- 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.
Animal Scienc		1	1
Name of	Stage	Disease and	Agro-meteorological advisories
bird/ animal	4.11	Management	
Poultry	All age groups	Ranikhet disease	Vaccinate against Ranikhet disease.
(Chicken/ Duck)		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	 Vaccination 	• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,
			Enterotoxaemia, etc. this must be done during this month.Take adequate care to prevent occurrence of Mastitis.
			 PPR immunization must be done once in every three years.
		• De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		Management	Avoid dampness to protect from Pneumonia.
			• Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Cattle	excepts the young ones		• Cases of H.S. may be encountered during this period
Cattle			• Immediate treatment using appropriate drugs with the help of Consultant must
Cattle	ones		be advocated to safe the animals
Cattle	ones	• Deworming	 be advocated to safe the animals. De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 20ml for 100 kg back any intervention.
Cattle	ones		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
Cattle	ones	Deworming Care & Management	 De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight. Mixture of mineral/ salts should be added in the feed.
Cattle	ones		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.



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20th February, 2018

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Imphal East

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 19 th February, 2018)	Weather forecast for next five days of Imphal East (21 st to 25 th February, 2018)
Observed mainly clear to partly cloudy with no rainfall during past four days. Maximum temperature range of 26.5 to 27.2 °C and minimum temperature range of 7.1 to 7.5 °C with mean relative humidity 91.0 % max and 32.8 % min was recorded in the past four days.	Likely to have no rains upto Wednesday and mainly clear to partly cloudy sky. The maximum temp. 26-27 °C & minimum temp. 08-09 °C and relative humidity may reach up to 82 % (max RH) & 39 %

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to land preparation of main field and		 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. Land preparation of main field may be started. Irrigate the field upto 5-7 cm
	direct seeding		after a cross plough. Submerge the plot 15-20 days before the expected date of transplanting to obtain weed free plot. - For broadcasting, seeds should be uniformly sprouted before sowing.
Donogood/	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 formationMustardto 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. Spray Propiconazole @ 1ml/ litre of water or Sulfax @ 2g/ litre of water for management of rust/ powdery mildew and downey mildew disease.
	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 Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		 If late blight is observed in potato, spray Mencozeb @ 2-3 g/ litre at 7 days interval for 3 times in severe case. 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			
			t crops. Apply mulch with dry grass at the basin to conserve the soil moisture.
Name of the crop Banana	Stage	Pest and disease	Agro-meteorological advisories - For planting banana make pits of size 50x50x50cm. Fill the pit with top soil and well decomposed FYM/ compost 2-4 weeks before planting sucker.
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		 Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started. Collection of good planting material from reliable source may be done.
Ginger/ Turmeric	Land preparation		- Land preparation for planting of ginger/ turmeric may be started. Mix manures @ 20-25 t/ ha 15 days before planting.
Chilli/ capsicum	Nursery		In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.



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French bean	Sowing to		- Sowing of French bean may be done in prepared land. Seed rate for dwar
French Dean	vegetative		varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) an
	C		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 to vegetative			- 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
	vegetative		and 25kg MOP per sangam at final stage of land preparation before sowing.
			- Give light irrigation after 2-3 days of sowing.
Cucurbits Transplanting		g	- 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 formati	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	2	- 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.
Animal Scienc		1	1
Name of	Stage	Disease and	Agro-meteorological advisories
bird/ animal	4.11	Management	
Poultry	All age groups	Ranikhet disease	Vaccinate against Ranikhet disease.
(Chicken/ Duck)		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	 Vaccination 	• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,
			Enterotoxaemia, etc. this must be done during this month.Take adequate care to prevent occurrence of Mastitis.
			 PPR immunization must be done once in every three years.
		• De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		Management	Avoid dampness to protect from Pneumonia.
			• Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Cattle	excepts the young ones		• Cases of H.S. may be encountered during this period
Cattle			• Immediate treatment using appropriate drugs with the help of Consultant must
Cattle	ones		be advocated to safe the animals
Cattle	ones	• Deworming	 be advocated to safe the animals. De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 20ml for 100 kg back any sight.
Cattle	ones		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
Cattle	ones	Deworming Care & Management	 De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight. Mixture of mineral/ salts should be added in the feed.
Cattle	ones		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.



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MANIPUR BULLETIN

20th February, 2018

Imphal West

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 19 th February, 2018)	Weather forecast for next five days of Imphal West (21 st to 25 th February, 2018)
	cloudy sky. The maximum temp. 26-27 °C & minimum temp. 08-09 °C and relative humidity may reach up to 82 % (max RH) & 39 %

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to land preparation of main field and direct seeding		 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. Land preparation of main field may be started. Irrigate the field upto 5-7 cm after a cross plough. Submerge the plot 15-20 days before the expected date of transplanting to obtain weed free plot. For broadcasting, seeds should be uniformly sprouted before sowing.
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. 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. Spray Propiconazole @ 1ml/ litre of water or Sulfax @ 2g/ litre of water for management of rust/ powdery mildew and downey mildew disease.
Rabi Maize	Vegetative to pre- flowering	Stem borer	 If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done. To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Potato	Maturity to harvesting		 - If late blight is observed in potato, spray Mencozeb @ 2-3 g/ litre at 7 days interval for 3 times in severe case. - 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			
			crops. Apply mulch with dry grass at the basin to conserve the soil moisture.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Banana			- For planting banana make pits of size 50x50x50cm. Fill the pit with top soil and well decomposed FYM/ compost 2-4 weeks before planting sucker.
Tree bean/ Lime/ Lemon Ginger/ Turmeric	Land preparation and collection of planting material Land preparation		 Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started. Collection of good planting material from reliable source may be done. Land preparation for planting of ginger/ turmeric may be started. Mix manures
Chilli/ capsicum	Nursery		 and preparation for planting of ginger/ turneric may be started. Wix manures @ 20-25 t/ ha 15 days before planting. In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g
Chini capsiculi	i turboi y		per litre of water to control the fungal attack.



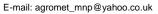
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French bean	Sowing to		- Sowing of French bean may be done in prepared land. Seed rate for dwar
French Dean	vegetative		varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) an
	C		25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).
			- Give light irrigation after 2-3 days of sowing.
Bhindi	Sowing to vegetative		- 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
	vegetative		and 25kg MOP per sangam at final stage of land preparation before sowing.
			- Give light irrigation after 2-3 days of sowing.
Cucurbits	Transplanting	g	- 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 formati	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	2	- 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.
Animal Scienc		1	1
Name of	Stage	Disease and	Agro-meteorological advisories
bird/ animal	4.11	Management	
Poultry	All age groups	Ranikhet disease	Vaccinate against Ranikhet disease.
(Chicken/ Duck)		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	 Vaccination 	• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,
			Enterotoxaemia, etc. this must be done during this month.Take adequate care to prevent occurrence of Mastitis.
			 PPR immunization must be done once in every three years.
		• De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		Management	Avoid dampness to protect from Pneumonia.
			• Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Cattle	excepts the young ones		• Cases of H.S. may be encountered during this period
Cattle			• Immediate treatment using appropriate drugs with the help of Consultant must
Cattle	ones		be advocated to safe the animals
Cattle	ones	• Deworming	 be advocated to safe the animals. De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 20ml for 100 kg back any intervention.
Cattle	ones		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
Cattle	ones	Deworming Care & Management	 De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight. Mixture of mineral/ salts should be added in the feed.
Cattle	ones		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.



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





MANIPUR BULLETIN

20th February, 2018

<u>Senapati</u>

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 19 th February, 2018)	Weather forecast for next five days of Senapati (21 st to 25 th February, 2018)
Observed mainly clear to partly cloudy with no rainfall during past four days. Maximum temperature range of 26.5 to 27.2 °C and minimum temperature range of 7.1 to 7.5 °C with mean relative humidity 91.0 % max and 32.8 % min was recorded in the past four days.	cloudy sky. The maximum temp. 23-24 $^{\circ}$ C & minimum temp. 5 - 6 $^{\circ}$ C and relative humidity may reach up to 89 % (max RH) & 21 %

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to land preparation of main field and direct seeding		 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. Land preparation of main field may be started. Irrigate the field upto 5-7 cm after a cross plough. Submerge the plot 15-20 days before the expected date of transplanting to obtain weed free plot. For broadcasting, seeds should be uniformly sprouted before sowing.
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. 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. Spray Propiconazole @ 1ml/ litre of water or Sulfax @ 2g/ litre of water for management of rust/ powdery mildew and downey mildew disease.
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 Carbofurada 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			Malaulion 170 on the wans of stores.
	tion to passion fruit, r	bineapple and other fruit	t crops. Apply mulch with dry grass at the basin to conserve the soil moisture.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Banana			- For planting banana make pits of size 50x50x50cm. Fill the pit with top soil and well decomposed FYM/ compost 2-4 weeks before planting sucker.
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		 Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started. Collection of good planting material from reliable source may be done.
Ginger/ Turmeric	Land preparation		- Land preparation for planting of ginger/ turmeric may be started. Mix manures @ 20-25 t/ ha 15 days before planting.
Chilli/ capsicum	Nursery		In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Sowing to vegetative		 Sowing of French bean may be done in prepared land. Seed rate for dwar 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 to vegetative		- 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.

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			- Give light irrigation after 2-3 days of sowing.
Animal Scienc	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	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	All age groups	Vaccination	 If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. Take adequate care to prevent occurrence of Mastitis. PPR immunization must be done once in every three years.
		• De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		Management	 Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups	 Coccidial infection 	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
-	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle ex	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.

odder cultivation: Oat crop may be sown immediately.

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



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

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

20th February, 2018

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Tamenglong

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 19 th February, 2018)	Weather forecast for next five days of Tamenglong (21 st to 25 th February, 2018)
Observed mainly clear to partly cloudy with no rainfall during past four days. Maximum temperature range of 26.5 to 27.2 °C and minimum temperature range of 7.1 to 7.5 °C with mean relative humidity 91.0 % max and 32.8 % min was recorded in the past four days.	cloudy sky. The maximum temp. 24-25 °C & minimum temp. 6-7 °C and relative humidity may reach up to 89 % (max RH) & 21 %

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to land preparation of main field and direct seeding		 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. Land preparation of main field may be started. Irrigate the field upto 5-7 cm after a cross plough. Submerge the plot 15-20 days before the expected date of transplanting to obtain weed free plot. For broadcasting, seeds should be uniformly sprouted before sowing.
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. 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. Spray Propiconazole @ 1ml/ litre of water or Sulfax @ 2g/ litre of water for management of rust/ powdery mildew and downey mildew disease.
Rabi Maize	Vegetative to pre- flowering	Stem borer	 If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done. To control the infestation of stem borer, apply few granules of Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		 If late blight is observed in potato, spray Mencozeb @ 2-3 g/ litre at 7 days interval for 3 times in severe case. 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 conten or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
	tion to passion fruit, p		t crops. Apply mulch with dry grass at the basin to conserve the soil moisture.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Banana			- For planting banana make pits of size 50x50x50cm. Fill the pit with top soil and well decomposed FYM/ compost 2-4 weeks before planting sucker.
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		 Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started. Collection of good planting material from reliable source may be done.
Ginger/ Turmeric	Land preparation		- Land preparation for planting of ginger/ turmeric may be started. Mix manures @ 20-25 t/ ha 15 days before planting.
Chilli/ capsicum	Nursery		In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.



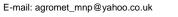
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French bean	Sowing to vegetative		 Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill). Give light irrigation after 2-3 days of sowing.
Bhindi	Sowing to vegetative		 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	5	- 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 raisin	ng	- Nursery for late crops may be raised.
Tomato	Transplanting	5	 - 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.
Animal Scienc	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	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		Vaccination	 If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. Take adequate care to prevent occurrence of Mastitis. PPR immunization must be done once in every three years.
		• De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		• Management	 Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
-	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle	All age groups excepts the young ones	Vaccination	 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies. Adopt tick control measures
		Mastitis	 Adequate care must be ensured for prevention of mastitis for the milch animals.



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





MANIPUR BULLETIN

20th February, 2018

<u>Thoubal</u>

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 19 th February, 2018)	Weather forecast for next five days of Thoubal (21 st to 25 th February, 2018)
Observed mainly clear to partly cloudy with no rainfall during past four days. Maximum temperature range of 26.5 to 27.2 °C and minimum temperature range of 7.1 to 7.5 °C with mean relative humidity 91.0 % max and 32.8 % min was recorded in the past four days.	cloudy sky. The maximum temp. 27-28 °C & minimum temp. 9-10 °C and relative humidity may reach up to 89 % (max RH) & 39 %

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to land preparation of main field and direct seeding		 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. Land preparation of main field may be started. Irrigate the field upto 5-7 cm after a cross plough. Submerge the plot 15-20 days before the expected date of
			transplanting to obtain weed free plot. - For broadcasting, seeds should be uniformly sprouted before sowing.
		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. Spray Propiconazole @ 1ml/ litre of water or Sulfax @ 2g/ litre of water for management of rust/ powdery mildew and downey mildew disease.
Dahi Maira	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 Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		 If late blight is observed in potato, spray Mencozeb @ 2-3 g/ litre at 7 days interval for 3 times in severe case. For seed: Strict supervision on removal of unwanted plant type should be maintained. Maturity days should be strictly maintained as per variety.
Seeds storage	Post harvest management		 Harvest the crop after 10-15 days after haulm cutting. For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying an cleaning of seeds along with dry charcoal at 80:20. Check for moisture conter or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spra Malathion 1% on the walls of stores.
Horticulture Crops			
			t crops. Apply mulch with dry grass at the basin to conserve the soil moisture.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Banana			- For planting banana make pits of size 50x50x50cm. Fill the pit with top soil and well decomposed FYM/ compost 2-4 weeks before planting sucker.
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		 Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started. Collection of good planting material from reliable source may be done.
Ginger/ Turmeric	Land preparation		- Land preparation for planting of ginger/ turmeric may be started. Mix manures @ 20-25 t/ ha 15 days before planting.
Chilli/ capsicum	Nursery		In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.



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French bean	Sowing to vegetative		 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 to vegetative		 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	5	- 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 raisin	ng	- Nursery for late crops may be raised.
Tomato	Transplanting	5	 - 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.
Animal Scienc	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	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		Vaccination	 If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. Take adequate care to prevent occurrence of Mastitis. PPR immunization must be done once in every three years.
		• De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		• Management	 Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
-	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle	All age groups excepts the young ones	Vaccination	 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies. Adopt tick control measures
		Mastitis	 Adequate care must be ensured for prevention of mastitis for the milch animals.



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





MANIPUR BULLETIN

20th February, 2018

<u>Ukhrul</u>

Significant past weather for the preceding bi-weekly of Imphal - West (16 th to 19 th February, 2018)	Weather forecast for next five days of Ukhrul (21 st to 25 th February, 2018)
Observed mainly clear to partly cloudy with no rainfall during past four days. Maximum temperature range of 26.5 to 27.2 °C and minimum temperature range of 7.1 to 7.5 °C with mean relative humidity 91.0 % max and 32.8 % min was recorded in the past four days.	cloudy sky. The maximum temp. 24-25 °C & minimum temp. 6-7 °C and relative humidity may reach up to 89 % (max RH) & 25 %

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to land preparation of main field and direct seeding		 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. Land preparation of main field may be started. Irrigate the field upto 5-7 cm after a cross plough. Submerge the plot 15-20 days before the expected date of transplanting to obtain weed free plot. For broadcasting, seeds should be uniformly sprouted before sowing.
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. 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. Spray Propiconazole @ 1ml/ litre of water or Sulfax @ 2g/ litre of water for management of rust/ powdery mildew and downey mildew disease.
Rabi Maize	Vegetative to pre- flowering	Stem borer	 If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done. To control the infestation of stem borer, apply few granules of Carbofuradar 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			
	tion to passion fruit, p	vineapple and other fruit	t crops. Apply mulch with dry grass at the basin to conserve the soil moisture.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Banana	0		- For planting banana make pits of size 50x50x50cm. Fill the pit with top soil and well decomposed FYM/ compost 2-4 weeks before planting sucker.
Tree bean/ Lime/ Lemon Ginger/ Turmeric	Land preparation and collection of planting material Land preparation		 Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started. Collection of good planting material from reliable source may be done. Land preparation for planting of ginger/ turmeric may be started. Mix manures
Chilli/ capsicum	Nursery		 @ 20-25 t/ ha 15 days before planting. In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Sowing to vegetative		 Sowing of French bean may be done in prepared land. Seed rate for dwar varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) an 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 to vegetative		- 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.

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			- Give light irrigation after 2-3 days of sowing.
Animal Scienc	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	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 group	All age groups	Vaccination	 If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. Take adequate care to prevent occurrence of Mastitis. PPR immunization must be done once in every three years.
		• De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		Management	 Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
exc	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.
		Vaccination	Vaccinate against FMD and Swine Fever.
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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.

odder cultivation: Oat crop may be sown immediately.

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