

; Fax : (0385) 2414654, 2414749

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Bishnupur

Significant past weather for the preceding bi-weekly of Imphal West (11th to 14th January, 19) No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 – 24.0 °C and minimum of 3.6 – 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 – 2.3 km/ hr.

Weather forecast for Bishnupur (16th to 20th January, 2019)

E-mail: agromet_mnp@yahoo.co.uk

Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 21 °C & mini. temp. 3 °C. Relative humidity may reach upto 95% (max) and 30% (min). The average wind speed may be 2-6 km/hr.

Date of issue: 15th January, 2019

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

E. H.C.							
Field Crops	- Cu	D (1.11					
Name of the crop	Stage	Pest and disea	ase	Agro-meteorological advisories			
Rapeseed/ Mustard	Vegetative to early	Aphid		- Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/			
	flowering			litre of water on the infected patches. For organic control against aphid, sprays that			
		****		consist of Azadirachtin or neem oil may be used.			
		White rust and		- Spray Metalayl 8% + Mancozeb64%WP @2.5g/ litre water.			
		Alterneria Bligh		C. D. I. HANTE MANUEL CA. I. M. FO. CO. I. R. J. C. H. D. H.			
		Powdery mildew	and	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb			
TO 1 1 / T 4 ° 1	**************************************	white rust		Extract (ST) @ 1% or Trichoderma harzianum.			
Field pea/ Lentil	Vegetative to early	Powdery mildew	ana	- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and			
	flowering	rust Downey Mildew		Nimbicidin (0.3%) against rust.			
		•		Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.			
Potato	Vegetative to tuber	Cut worm		If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk +			
	initiation			40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of			
				plant above the soil surface.			
Seeds storage	Post-harvest			- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of			
	Management			seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight			
				of charcoal and dry if required.			
Honticultum Corre				- Avoid fungal growth and pest rodent in store.			
Horticulture Crops	G:						
Name of the crop	Stage	Pest and disea		Agro-meteorological advisories			
Cole crops	Vegetative to head	Diamond Black Moth		- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water.			
	formation	Cabbage Borer		- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre water.			
Tomato	Vegetative	Early blight		- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water.			
~				Also apply Dithane M 45 @ 2g/ litre of water.			
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew	and	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust			
		yellow rust		especially to the crops grown in moist/ shady area.			
Banana		Fruit rot and lea	ıf	- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.			
T D		spot	•,	20. 0. 1. 0. 20/ 1. / 1. / 1. / 1. / 1. / 1. / 1. / 1.			
Tree-Bean	Pre-bearing and	bark borer/ tern	ntes	- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure			
0.1.	bearing trees			against bark borer/ termites 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/ sangam			
Onion	Vegetative						
4 : I C :				depending upon the fertility.			
* Amanga for external had	et courae durino nicht I	agulu maurina ha	9				
* Arrange for external heat		Disease/	s. 	Agro-meteorological advisories			
rame of on'th animal	Stage	Management		Agro-meteorological advisories			
Poultry (Chicken/	All age groups	Care and	Prote	ect animals/ birds from sudden drop in temperature. Walls of sheds should be covered			
Duck)	An age groups	Management		polythene sheets/hessian cloths during the night.			
Duck)		O		itters should be of 4.5 inches thick and stir it at regular interval.			
Sheep/ Goat	All age groups	Vaccination	_	rinate against sheep/ goat pox and Enterotoxaemia.			
	0 0 1			<u> </u>			
Pig	All age groups except	Deworming		ndazole Plus Avermectin Table 6 mg/adult.			
	the young ones	Coccidial	Oflo	xacine/ Ornidazole (O ₂) tab twice daily for 5 days.			
				(A 11)			
				ect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the			
C. III.	A 11	m· 1	solution.				
Cattle	All age groups	1		Butox liquid @ 2ml/ litre water twice a week while brushing animals.			
	excepts the young Deworming		Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body				
	ones	Care and Sheds		5ml/ 10 kg body weight (Ranizole) in lower altitude.			
				s must be kept dry. Use bedding materials.			
		Management					



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"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Chandel

Significant past weather for the preceding bi-weekly of Imphal West (11th to 14th January, 19) No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 – 24.0 °C and minimum of 3.6 – 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 - 2.3 km/hr.

Weather forecast for Chandel (16th to 20th January, 2019)

E-mail: agromet_mnp@yahoo.co.uk

Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 21 °C & mini. temp. 3 °C. Relative humidity may reach upto 95% (max) and 34% (min). The average wind speed may be 4-5 km/hr.

Date of issue: 15th January, 2019

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

Field Crops					
Name of the crop	Stage	Pest and disea	ase	Agro-meteorological advisories	
Rapeseed/ Mustard	Rapeseed/ Mustard Vegetative to early flowering Aphid			- Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin or neem oil may be used.	
		White rust and		- Spray Metalayl 8% + Mancozeb64%WP @2.5g/ litre water.	
		Alterneria Bligh	t	~	
		Powdery mildew	and	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb	
		white rust		Extract (ST) @ 1% or Trichoderma harzianum.	
Field pea/ Lentil	Vegetative to early	Powdery mildew	and	- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and	
	flowering	rust		Nimbicidin (0.3%) against rust.	
		Downey Mildew		Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.	
Potato	Vegetative to tuber initiation	Cut worm		If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.	
Seeds storage	Post-harvest Management			 For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. Avoid fungal growth and pest rodent in store. 	
Horticulture Crops				11.000 tangar ground and pest rought in store	
Name of the crop	Stage	Pest and disea	nse	Agro-meteorological advisories	
Cole crops	Vegetative to head	Diamond Black I		- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water.	
Core crops	formation	Cabbage Borer		- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre water.	
Tomato	Vegetative	Early blight		- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.	
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew yellow rust	and	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/shady area.	
Banana		Fruit rot and lea spot		- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.	
Tree-Bean	Pre-bearing and	bark borer/ term	iites	- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure	
	bearing trees			against bark borer/ termites.	
Onion	Vegetative			- 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/ sangam depending upon the fertility.	
Animal Sciences				depending upon the fertility.	
* Arrange for external hea	ut source during night and	early morning house	7		
Name of bird/ animal	u source auring night and Stage	Disease/). 	Agro-meteorological advisories	
rame of one animal	buge	Management		Agro-incultingical auvisuries	
Poultry (Chicken/	All age groups	Care and	Prote	ect animals/ birds from sudden drop in temperature. Walls of sheds should be covered	
Duck)	001	Management		polythene sheets/hessian cloths during the night.	
				rs should be of 4.5 inches thick and stir it at regular interval.	
Sheep/ Goat	All age groups	Vaccination	Vacc	inate against sheep/ goat pox and Enterotoxaemia.	
Pig	All age groups except	Deworming	Albei	ndazole Plus Avermectin Table 6 mg/adult.	
	the young ones	Coccidial		xacine/ Ornidazole (O2) tab twice daily for 5 days.	
		infection			
		Skin diseases	Prote	ect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the ion.	
Cattle	All age groups	Tick	Use I	Butox liquid @ 2ml/ litre water twice a week while brushing animals.	
	excepts the young	Deworming		Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight	
	ones		or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.		
	Care and Sh Management		Shed	s must be kept dry. Use bedding materials.	



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"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Churachandpur

Significant past weather for the preceding bi-weekly of Imphal West (11th to 14th January, 19) No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 – 24.0 °C and minimum of 3.6 – 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 – 2.3 km/ hr.

Weather forecast for Churachandpur (16th to 20th January, 2019)

Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 21 °C & mini. temp. 3 °C. Relative humidity may reach upto 95% (max) and 29% (min). The average wind speed may be 4-5 km/hr.

Date of issue: 15th January, 2019

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

E. H.C.							
Field Crops	- Cu	D (1.11					
Name of the crop	Stage	Pest and disea	ase	Agro-meteorological advisories			
Rapeseed/ Mustard	Vegetative to early	Aphid		- Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/			
	flowering			litre of water on the infected patches. For organic control against aphid, sprays that			
		****		consist of Azadirachtin or neem oil may be used.			
		White rust and		- Spray Metalayl 8% + Mancozeb64%WP @2.5g/ litre water.			
		Alterneria Bligh		C. D. I. HANTE MANUEL CA. I. M. FO. CO. I. R. J. C. H. D. H.			
		Powdery mildew	and	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb			
TO 1 1 / T 4 ° 1	**************************************	white rust		Extract (ST) @ 1% or Trichoderma harzianum.			
Field pea/ Lentil	Vegetative to early	Powdery mildew	ana	- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and			
	flowering	rust Downey Mildew		Nimbicidin (0.3%) against rust.			
		•		Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.			
Potato	Vegetative to tuber	Cut worm		If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk +			
	initiation			40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of			
				plant above the soil surface.			
Seeds storage	Post-harvest			- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of			
	Management			seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight			
				of charcoal and dry if required.			
Honticultum Corre				- Avoid fungal growth and pest rodent in store.			
Horticulture Crops	G:						
Name of the crop	Stage	Pest and disea		Agro-meteorological advisories			
Cole crops	Vegetative to head	Diamond Black Moth		- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water.			
	formation	Cabbage Borer		- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre water.			
Tomato	Vegetative	Early blight		- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water.			
~				Also apply Dithane M 45 @ 2g/ litre of water.			
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew	and	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust			
		yellow rust		especially to the crops grown in moist/ shady area.			
Banana		Fruit rot and lea	ıf	- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.			
T D		spot	•,	20. 0. 1. 0. 20/ 1. / 1. / 1. / 1. / 1. / 1. / 1. / 1.			
Tree-Bean	Pre-bearing and	bark borer/ tern	ntes	- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure			
0.1.	bearing trees			against bark borer/ termites 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/ sangam			
Onion	Vegetative						
4 : I C :				depending upon the fertility.			
* Amanga for external had	et courae durino nicht I	agulu maurina ha	9				
* Arrange for external heat		Disease/	s. 	Agro-meteorological advisories			
rame of on'th animal	Stage	Management		Agro-meteorological advisories			
Poultry (Chicken/	All age groups	Care and	Prote	ect animals/ birds from sudden drop in temperature. Walls of sheds should be covered			
Duck)	An age groups	Management		polythene sheets/hessian cloths during the night.			
Duck)		O		itters should be of 4.5 inches thick and stir it at regular interval.			
Sheep/ Goat	All age groups	Vaccination	_	rinate against sheep/ goat pox and Enterotoxaemia.			
	0 0 1			<u> </u>			
Pig	All age groups except	Deworming		ndazole Plus Avermectin Table 6 mg/adult.			
	the young ones	Coccidial	Oflo	xacine/ Ornidazole (O ₂) tab twice daily for 5 days.			
				(A 11)			
				ect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the			
C. III.	A 11	m· 1	solution.				
Cattle	All age groups	1		Butox liquid @ 2ml/ litre water twice a week while brushing animals.			
	excepts the young Deworming		Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body				
	ones	Care and Sheds		5ml/ 10 kg body weight (Ranizole) in lower altitude.			
				s must be kept dry. Use bedding materials.			
		Management					



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"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Imphal East

Significant past weather for the preceding bi-weekly of Imphal West (11^{th} to 14^{th} January, 19) No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 - 24.0 °C and minimum of 3.6 - 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 - 2.3 km/ hr.

Weather forecast for Imphal East (16th to 20th January, 2019)

E-mail: agromet_mnp@yahoo.co.uk

Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 21 °C & mini. temp. 3 °C. Relative humidity may reach upto 95% (max) and 28% (min). The average wind speed may be 5-6 km/hr.

Date of issue: 15th January, 2019

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

• • • • • • • • • • • • • • • • • • • •	nt irrigation in the crop i					
Field Crops	C4===	Pest and disea		A man marks and a defende		
Name of the crop Rapeseed/ Mustard	Stage Vegetative to early flowering	Aphid		Agro-meteorological advisories - Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin or neem oil may be used.		
	White rust and Alterneria Blight			- Spray Metalayl 8% + Mancozeb64%WP @2.5g/ litre water.		
		Powdery mildew white rust	and	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb Extract (ST) @ 1% or <i>Trichoderma harzianum</i> .		
Field pea/ Lentil	Vegetative to early flowering	Powdery mildew rust		- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and Nimbicidin (0.3%) against rust.		
		Downey Mildew	•	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.		
Potato	Vegetative to tuber initiation	Cut worm		If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.		
Seeds storage	Post-harvest Management			For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. Avoid fungal growth and pest rodent in store.		
Horticulture Crops						
Name of the crop	Stage	Pest and disea	ase	Agro-meteorological advisories		
Cole crops	Vegetative to head	Diamond Black	Moth	- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water.		
_	formation	Cabbage Borer		- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre water.		
Tomato	Vegetative	Early blight		- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.		
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew yellow rust		- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.		
Banana		Fruit rot and leaf spot		- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.		
Tree-Bean	Pre-bearing and bearing trees	bark borer/ tern	nites	- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure against bark borer/ termites.		
Onion	Vegetative			- 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/ sangam depending upon the fertility.		
Animal Sciences						
* Arrange for external hea			s.			
Name of bird/ animal	Stage	Disease/ Management		Agro-meteorological advisories		
Poultry (Chicken/ Duck)	All age groups	Care and Management	with	ect animals/ birds from sudden drop in temperature. Walls of sheds should be covered polythene sheets/hessian cloths during the night. ers should be of 4.5 inches thick and stir it at regular interval.		
Sheep/ Goat	All age groups	Vaccination		cinate against sheep/ goat pox and Enterotoxaemia.		
Pig	All age groups except	Deworming		ndazole Plus Avermectin Table 6 mg/adult.		
	the young ones	infection		xacine/ Ornidazole (O ₂) tab twice daily for 5 days.		
		Skin diseases	solution.			
Cattle	All age groups			Butox liquid @ 2ml/ litre water twice a week while brushing animals.		
	excepts the young ones	Deworming	or 5.	Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight 5ml/ 10 kg body weight (Ranizole) in lower altitude.		
		Care and Management		Sheds must be kept dry. Use bedding materials.		



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Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



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District: Imphal West

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Weather forecast for Imphal West (16th to 20th January, 2019)

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Date of issue: 15th January, 2019

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

E. H.C.							
Field Crops	G4	D (1.11					
Name of the crop	Stage	Pest and disea	ase	Agro-meteorological advisories			
Rapeseed/ Mustard	Vegetative to early	Aphid		- Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/			
	flowering			litre of water on the infected patches. For organic control against aphid, sprays that			
		****		consist of Azadirachtin or neem oil may be used.			
		White rust and		- Spray Metalayl 8% + Mancozeb64%WP @2.5g/ litre water.			
		Alterneria Bligh		G D I HAME TANKE OA (H) A TO CO I A I G H D H			
		Powdery mildew	and	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb			
TO LE COLLEGE	X7	white rust		Extract (ST) @ 1% or Trichoderma harzianum.			
Field pea/ Lentil	Vegetative to early	Powdery mildew	and	- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and			
	flowering	rust		Nimbicidin (0.3%) against rust.			
_		Downey Mildew		Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.			
Potato	Vegetative to tuber	Cut worm		If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk +			
	initiation			40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of			
				plant above the soil surface.			
Seeds storage	Post-harvest			- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of			
	Management			seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight			
				of charcoal and dry if required.			
**				- Avoid fungal growth and pest rodent in store.			
Horticulture Crops							
Name of the crop	Stage	Pest and disea		Agro-meteorological advisories			
Cole crops	Vegetative to head	Diamond Black Moth		- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water.			
	formation	Cabbage Borer		- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre water.			
Tomato	Vegetative	Early blight		- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water.			
				Also apply Dithane M 45 @ 2g/ litre of water.			
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew	and	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust			
		yellow rust		especially to the crops grown in moist/ shady area.			
Banana		Fruit rot and lea	ıf	- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.			
		spot					
Tree-Bean	Pre-bearing and	bark borer/ tern	nites	- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure			
	bearing trees			against bark borer/ termites.			
Onion	Vegetative			- 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/ sangam			
				depending upon the fertility.			
Animal Sciences		,					
* Arrange for external hea			S.				
Name of bird/ animal	Stage	Disease/		Agro-meteorological advisories			
Doultury (Chi-l/	All aga gway	Management	Descri	est onimale/ hinds from and don duon in towns are true. Wells of the desired by			
Poultry (Chicken/ Duck)	All age groups	Care and		ect animals/ birds from sudden drop in temperature. Walls of sheds should be covered			
Duck)		Management		polythene sheets/hessian cloths during the night.			
Shoon/Coot	All ago groups	Vaccination		ers should be of 4.5 inches thick and stir it at regular interval.			
Sheep/ Goat	All age groups			inate against sheep/ goat pox and Enterotoxaemia.			
Pig	All age groups except	Deworming		ndazole Plus Avermectin Table 6 mg/adult.			
	the young ones	Coccidial	Oflox	xacine/ Ornidazole (O2) tab twice daily for 5 days.			
				ect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the			
			ion.				
Cattle	All age groups	Tick		Butox liquid @ 2ml/ litre water twice a week while brushing animals.			
	. , , ,			Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight			
	ones	Care and Sheds		5ml/ 10 kg body weight (Ranizole) in lower altitude.			
				s must be kept dry. Use bedding materials.			
		Management					



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"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Senapati

Significant past weather for the preceding bi-weekly of Imphal West (11th to 14th January, 19) No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 – 24.0 °C and minimum of 3.6 – 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 – 2.3 km/ hr.

Weather forecast for Senapati (16th to 20th January, 2019)

Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 19 °C & mini. temp. 1 °C. Relative humidity may reach upto 98% (max) and 37% (min). The average wind speed may be 4-5 km/hr.

Date of issue: 15th January, 2019

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

Field Crops					
Name of the crop	Stage	Pest and disea	ase Agro-meteorological advisories		
Rapeseed/ Mustard Vegetative to early flowering Aphid			 Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin or neem oil may be used. 		
	White rust and Alterneria Blight				
		Powdery mildew white rust	Extract (ST) @ 1% or Trichoderma harzianum.		
Field pea/ Lentil	Vegetative to early flowering	Powdery mildew rust	Nimbicidin (0.3%) against rust.		
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.		
Seeds storage	Post-harvest Management		 For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. Avoid fungal growth and pest rodent in store. 		
Horticulture Crops					
Name of the crop	Stage	Pest and disea	8		
Cole crops	Vegetative to head	Diamond Black N	- F - 7 - F		
	formation	Cabbage Borer	- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre water.		
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew yellow rust	v and - Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.		
Banana		Fruit rot and leaf	- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.		
Tree-Bean	Pre-bearing and bearing trees	bark borer/ term	- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure against bark borer/ termites.		
Animal Sciences					
* Arrange for external heat					
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories		
Poultry (Chicken/	All age groups	Care and	Protect animals/ birds from sudden drop in temperature. Walls of sheds should be covered		
Duck)		Management	with polythene sheets/hessian cloths during the night. Litters should be of 4.5 inches thick and stir it at regular interval.		
Sheep/ Goat	All age groups	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.		
Pig	All age groups except	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.		
		Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.		
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the solution.		
Cattle	All age groups	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.		
	excepts the young ones	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.		
Care and Managemen		Care and Management	Sheds must be kept dry. Use bedding materials.		



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"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Tamenglong

Significant past weather for the preceding bi-weekly of Imphal West (11th to 14th January, 19) No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 – 24.0 °C and minimum of 3.6 – 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 – 2.3 km/ hr.

Weather forecast for Tamenglong (16th to 20th January, 2019)

Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 19 °C & mini. temp. 1 °C. Relative humidity may reach upto 98% (max) and 37% (min). The average wind speed may be 4-5 km/hr.

Date of issue: 15th January, 2019

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

Field Crops						
Name of the crop	Stage	Pest and disea	ase	Agro-meteorological advisories		
Rapeseed/ Mustard	Vegetative to early flowering	Aphid		- Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin or neem oil may be used.		
		White rust and Alterneria Bligh		- Spray Metalayl 8% + Mancozeb64%WP @2.5g/ litre water.		
		Powdery mildew white rust		- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb Extract (ST) @ 1% or <i>Trichoderma harzianum</i> .		
Field pea/ Lentil	Vegetative to early flowering	Powdery mildew rust		- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and Nimbicidin (0.3%) against rust.		
		Downey Mildew		Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.		
Seeds storage	Post-harvest Management			For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. Avoid fungal growth and pest rodent in store.		
Horticulture Crops						
Name of the crop	Stage	Pest and disea	ase	Agro-meteorological advisories		
Cole crops	Vegetative to head	Diamond Black		- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water.		
•	formation	Cabbage Borer		- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre water.		
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew yellow rust	and	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.		
Banana		Fruit rot and lea	ıf	- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.		
Tree-Bean	Pre-bearing and bearing trees	bark borer/ termites		- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure against bark borer/ termites.		
Animal Sciences						
* Arrange for external hea			S.			
Name of bird/ animal	Stage	Disease/ Management		Agro-meteorological advisories		
Poultry (Chicken/ Duck)	All age groups	Care and Management	Protect animals/ birds from sudden drop in temperature. Walls of sheds should be c with polythene sheets/hessian cloths during the night. Litters should be of 4.5 inches thick and stir it at regular interval.			
Sheep/ Goat	All age groups	Vaccination	Vacc	inate against sheep/ goat pox and Enterotoxaemia.		
Pig	All age groups except	Deworming	Albe	ndazole Plus Avermectin Table 6 mg/adult.		
	the young ones	Coccidial infection	Oflo	xacine/ Ornidazole (O2) tab twice daily for 5 days.		
		Skin diseases	Prote solut	ect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the ion.		
Cattle	Cattle All age groups			Butox liquid @ 2ml/ litre water twice a week while brushing animals.		
	excepts the young ones	Deworming		Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight 5ml/ 10 kg body weight (Ranizole) in lower altitude.		
		Care and Management		s must be kept dry. Use bedding materials.		



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"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Thoubal

Significant past weather for the preceding bi-weekly of Imphal West (11^{th} to 14^{th} January, 19) No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 - 24.0 °C and minimum of 3.6 - 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 - 2.3 km/ hr.

Weather forecast for Thoubal (16th to 20th January, 2019)

Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 21 °C & mini. temp. 3 °C. Relative humidity may reach upto 95% (max) and 38% (min). The average wind speed may be 4-5 km/hr.

Date of issue: 15th January, 2019

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

E. H.C.							
Field Crops	T gran	Description 1. Proceedings		Associated at the term			
Name of the crop	Stage	Pest and disea	ise	Agro-meteorological advisories			
Rapeseed/ Mustard				- Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/			
	flowering	***		litre of water on the infected patches. For organic control against aphid, sprays that			
				consist of Azadirachtin or neem oil may be used.			
		White rust and		- Spray Metalayl 8% + Mancozeb64%WP @2.5g/ litre water.			
		Alterneria Bligh		C D L HANGE BANKE CA LINE OF TO CO L OF TO CO L			
		Powdery mildew	and	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb			
		white rust		Extract (ST) @ 1% or Trichoderma harzianum.			
Field pea/ Lentil	Vegetative to early	Powdery mildew	and	- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and			
	flowering	rust		Nimbicidin (0.3%) against rust.			
		Downey Mildew		Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.			
Potato	Vegetative to tuber	Cut worm		If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk +			
	initiation			40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of			
				plant above the soil surface.			
Seeds storage	Post-harvest			- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of			
	Management			seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight			
				of charcoal and dry if required.			
				- Avoid fungal growth and pest rodent in store.			
Horticulture Crops							
Name of the crop	Stage	Pest and disea		Agro-meteorological advisories			
Cole crops	Vegetative to head	Diamond Black Moth		- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water.			
	formation	Cabbage Borer		- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre water.			
Tomato	Vegetative	Early blight		- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water.			
				Also apply Dithane M 45 @ 2g/ litre of water.			
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew	and	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust			
		yellow rust		especially to the crops grown in moist/ shady area.			
Banana		Fruit rot and lea	f	- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.			
		spot					
Tree-Bean	Pre-bearing and	bark borer/ tern	iites	- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure			
	bearing trees			against bark borer/ termites.			
Onion	Vegetative			- 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/ sangam			
				depending upon the fertility.			
Animal Sciences							
* Arrange for external hea	0 0		S.				
Name of bird/ animal	Stage	Disease/ Management		Agro-meteorological advisories			
Poultry (Chicken/	All age groups	Care and	Prote	ect animals/ birds from sudden drop in temperature. Walls of sheds should be covered			
Duck)		Management		polythene sheets/hessian cloths during the night.			
. ,				rs should be of 4.5 inches thick and stir it at regular interval.			
Sheep/ Goat	All age groups	Vaccination		inate against sheep/ goat pox and Enterotoxaemia.			
Pig	All age groups except	Deworming	Albei	ndazole Plus Avermectin Table 6 mg/adult.			
3	the young ones	Coccidial		xacine/ Ornidazole (O ₂) tab twice daily for 5 days.			
	J	infection	01102	V (V ₂) was trived dumit to a duffer			
		Skin diseases	Prote	ect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the			
			soluti	• 0			
Cattle	All age groups	Tick		Butox liquid @ 2ml/ litre water twice a week while brushing animals.			
	excepts the young	1		Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight			
				5ml/ 10 kg body weight (Ranizole) in lower altitude.			
				s must be kept dry. Use bedding materials.			
	Management		21100				



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

"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Ukhrul

Significant past weather for the preceding bi-weekly of Imphal West (11^{th} to 14^{th} January, 19) No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 - 24.0 °C and minimum of 3.6 - 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 - 2.3 km/ hr.

Weather forecast for Ukhrul (16th to 20th January, 2019)

E-mail: agromet_mnp@yahoo.co.uk

Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 19 °C & mini. temp. 1 °C. Relative humidity may reach upto 98% (max) and 30% (min). The average wind speed may be 4-5 km/hr.

Date of issue: 15th January, 2019

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

Field Crops				
Name of the crop	Stage	Pest and disea	se	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering	Aphid		- Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that
	nowcring			consist of Azadirachtin or neem oil may be used.
		White rust and Alterneria Blight	;	- Spray Metalayl 8% + Mancozeb64%WP @2.5g/litre water.
		Powdery mildew	and	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb
		white rust		Extract (ST) @ 1% or Trichoderma harzianum.
Field pea/ Lentil	Vegetative to early	Powdery mildew	and	- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and
	flowering	rust		Nimbicidin (0.3%) against rust.
		Downey Mildew		Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
Seeds storage	Post-harvest			- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of
	Management			seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
				- Avoid fungal growth and pest rodent in store.
Horticulture Crops				- Avoid fungal growth and pest fodent in store.
Name of the crop	Stage	Pest and disea	co	Agro-meteorological advisories
Cole crops	Vegetative to head	Diamond Black M		- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water.
Cole Crops	formation	Cabbage Borer	10111	- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre water.
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew	and	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust
Garden pea/ Broad bean	Trowering to returns	vellow rust	anu	especially to the crops grown in moist/shady area.
Banana			ř	- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.
		spot		
Tree-Bean	Pre-bearing and bearing trees	bark borer/ termites		- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences				
* Arrange for external hea	t source during night and	early morning hours		
Name of bird/ animal	Stage	Disease/		Agro-meteorological advisories
		Management		
Poultry (Chicken/	All age groups	Care and		ect animals/ birds from sudden drop in temperature. Walls of sheds should be covered
Duck)		Management		polythene sheets/hessian cloths during the night.
Sheep/ Goat	All age groups	Vaccination		rs should be of 4.5 inches thick and stir it at regular interval. inate against sheep/ goat pox and Enterotoxaemia.
-	e e .			
Pig	All age groups except	Deworming		ndazole Plus Avermectin Table 6 mg/adult.
	the young ones	Coccidial	Oflox	racine/ Ornidazole (O2) tab twice daily for 5 days.
		infection Skin diseases	Duoto	ect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the
		Skiii diseases	soluti	ion.
Cattle	All age groups	Tick		Butox liquid @ 2ml/ litre water twice a week while brushing animals.
	excepts the young ones	Deworming	or 5.5	Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight 5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Care and		
		Management		