

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 13th February, 2015

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 14th to 18th February, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th} \text{ to } 12^{th} \text{ February}, 2015)$

During past three days sky was mainly clear but mainly cloudy during afternoon hours of 10^{th} & 11^{th} February. **No** rainfall was recorded during past three days. Maximum temperature range observed was 22.3-24.5 °C, range of minimum temperature observed was 4.3-6.2 °C, mean relative humidity observed in morning and afternoon were 83.67 % and 35.0 % respectively. The average wind speed range was 2.0-2.5 km/hr.

Weather forecast for next five days of Bishnupur $(14^{th} to 18^{th} February, 2015)$

There may be rains from Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of $23.0-24.0\,^{\circ}$ C & minimum temp. $6.0-7.0\,^{\circ}$ C. Relative humidity may reach upto 92 % (maximum RH) & 30 % (minimum RH). The average wind speed may be 4-5 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		!	
Pre-kharif Rice	Land Preparation for nursery		 - Prepare nursery bed of 700 m² area, apply well decomposed FYM/compost @ 1 t/700 m² at final leveling. Seed rate is 60-65kg for a hectare. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. - Soaking and incubation of seeds may be started before sowing when minimum temperature reachs 10-12 °C.
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain soil moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
		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. Irrigation is essential at this stage for sustaining favorable condition for seed formation.
Pulses (Field pea/ Lentil)	Fruiting and maturity		As a prophylactic measure spray Bayleton (Triademefon 25% W.P.) @ 7gm / lit of water against powdery mildew and yellow rust after harvesting the mature ones. Well filled up green pods should be harvested. Also top dressing @ 20 kg Urea per ha may be applied after first picking.
Storage			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Recommended varieties are- 1. Arka Anamika 2. Pusa Sawani
Mango	Flowering	Leaf Hopper	Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.



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			Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Potato		Tuber formation to maturity		 For seed purpose: Removal off-types and plants showing mottling, mosaic, crinkle, necrosis and leaf rolling may be followed twice during the growing season. Also, remove plants showing symptoms of purple top roll. Blight and leaf spot disease must be controlled by spraying Mancozeb @ 0.2% alternatively with Copper Oxichloride @ 0.3% or with Sixer.
Animal Sc		T = -		
Name of the ar	iimal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age groups (as and when	Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
		required)	Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
Sheep/ Goat		Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.
			Ectoparasite	Use Butox liq. @ 2ml/4 litres of water and wash the animal with the solution.
Pig		Above 3 months of	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffa	ılo/	Above 3 months of	Deworming	Deworm using TolzanF @ 100ml/300kg body weight.
Mithun		age (as and when required)	F.M.D.	- Vaccinate against F.M.D.
		required)	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.
Fishery:		I	1	1
Type of Farming	Stage & Agr Management Stock maintenance - S - P ma - F - W		gro-metrological advisories	
Carp/ Catfish culture			Ponds should be free from aintained at 1.0 - 1.5 m. Feeds should be provided Well balanced feed fortif	n and for this practices mentioned below may be done in small scale. m unwanted vegetation and insects and water depth should be d 1-2 times a day @ 2-3% body weight per day. fied with vitamins and minerals should be provided. re/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.



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MANIPUR BULLETIN 13th February, 2015

Chandel

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Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th February, 2015)

During past three days sky was mainly clear but mainly cloudy during afternoon hours of 10^{th} & 11^{th} February. **No** rainfall was recorded during past three days. Maximum temperature range observed was 22.3-24.5 °C, range of minimum temperature observed was 4.3-6.2 °C, mean relative humidity observed in morning and afternoon were 83.67 % and 35.0 % respectively. The average wind speed range was 2.0-2.5 km/hr.

Weather forecast for next five days of Chandel (14th to 18th February, 2015)

There may be rains from Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of $21.0-23.0\,^{\circ}$ C & minimum temp. $5.0-7.0\,^{\circ}$ C. Relative humidity may reach upto 89 % (maximum RH) & 35 % (minimum RH). The average wind speed may be 3-6 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	-	J.	
Pre-kharif Rice	Land Preparation for nursery		 - Prepare nursery bed of 700 m² area, apply well decomposed FYM/compost @ 1 t/700 m² at final leveling. Seed rate is 60-65kg for a hectare. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. - Soaking and incubation of seeds may be started before sowing wher minimum temperature reachs 10-12 °C.
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain soil moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
		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.
			Irrigation is essential at this stage for sustaining favorable condition for seed formation.
Pulses (Field pea/ Lentil)	Fruiting and maturity		As a prophylactic measure spray Bayleton (Triademefon 25% W.P.) @ 7gm / lit of water against powdery mildew and yellow rust after harvesting the mature ones. Well filled up green pods should be harvested. Also top dressing @ 20 kg Urea per ha may be applied after first picking.
Storage			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Recommended varieties are- 1. Arka Anamika 2. Pusa Sawani
Mango	Flowering	Leaf Hopper	Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.



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			Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Potato		Tuber formation to maturity		 For seed purpose: Removal off-types and plants showing mottling, mosaic, crinkle, necrosis and leaf rolling may be followed twice during the growing season. Also, remove plants showing symptoms of purple top roll. Blight and leaf spot disease must be controlled by spraying Mancozeb @ 0.2% alternatively with Copper Oxichloride @ 0.3% or with Sixer.
Animal Sc		Ια		T
Name of the ar	nımal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry All susceptible ag groups (as and where the substitution of the substitution		groups (as and when	Coccidiosis Ranikhet disease	Give Coximar @ 2g/lit of drinking water for 5-7 days. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
Sheep/ Goat		Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.
			Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
Pig		Above 3 months of	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffa	ılo/	Above 3 months of	Deworming	Deworm using TolzanF @ 100ml/300kg body weight.
Mithun		age (as and when required)	F.M.D.	- Vaccinate against F.M.D.
		required)	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.
Fishery:			l	1
Type of Farming			gro-metrological advisories	
Carp/ Catfish culture	Stock maintenance - S - P ma - F - V		Ponds should be free from naintained at 1.0 - 1.5 m. Feeds should be provided Well balanced feed fortif	n and for this practices mentioned below may be done in small scale. m unwanted vegetation and insects and water depth should be d 1-2 times a day @ 2-3% body weight per day. fied with vitamins and minerals should be provided. re/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.



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MANIPUR BULLETIN 13th February, 2015

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 14th to 18th February, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th February, 2015)

During past three days sky was mainly clear but mainly cloudy during afternoon hours of 10^{th} & 11^{th} February. **No** rainfall was recorded during past three days. Maximum temperature range observed was 22.3-24.5 °C, range of minimum temperature observed was 4.3-6.2 °C, mean relative humidity observed in morning and afternoon were 83.67 % and 35.0 % respectively. The average wind speed range was 2.0-2.5 km/hr.

Weather forecast for next five days of Churachandpur (14th to 18th February, 2015)

There may be rains from Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of 23.0-25.0 °C & minimum temp. 11.0-12.0 °C. Relative humidity may reach upto 91 % (maximum RH) & 29 % (minimum RH). The average wind speed may be 4-5 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		J.	
Pre-kharif Rice	Land Preparation for nursery		 - Prepare nursery bed of 700 m² area, apply well decomposed FYM/compost @ 1 t/700 m² at final leveling. Seed rate is 60-65kg for a hectare. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. - Soaking and incubation of seeds may be started before sowing when minimum temperature reachs 10-12 °C.
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain soil moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
	, ,	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. Irrigation is essential at this stage for sustaining favorable condition for seed formation.
Pulses (Field pea/ Lentil)	Fruiting and maturity		As a prophylactic measure spray Bayleton (Triademefon 25% W.P.) @ 7gm / lit of water against powdery mildew and yellow rust after harvesting the mature ones. Well filled up green pods should be harvested. Also top dressing @ 20 kg Urea per ha may be applied after first picking.
Storage			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops		-	
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Recommended varieties are- 1. Arka Anamika 2. Pusa Sawani
Mango	Flowering	Leaf Hopper	Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.



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			Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Potato		Tuber formation to maturity		 For seed purpose: Removal off-types and plants showing mottling, mosaic, crinkle, necrosis and leaf rolling may be followed twice during the growing season. Also, remove plants showing symptoms of purple top roll. Blight and leaf spot disease must be controlled by spraying Mancozeb @ 0.2% alternatively with Copper Oxichloride @ 0.3% or with Sixer.
Animal Sc		T		
Name of the ar	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age groups (as and when	Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
		required)	Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
Sheep/ Goat		Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.
			Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
Pig		Above 3 months of	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		requireu)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffa	ılo/	Above 3 months of	Deworming	Deworm using TolzanF @ 100ml/300kg body weight.
Mithun		age (as and when required)	F.M.D.	- Vaccinate against F.M.D.
		required)	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.
Fishery:		1		1
Type of Farming	Stage & Agr Management Stock maintenance - S - P ma - F - W		gro-metrological advisories	
Carp/ Catfish culture			Ponds should be free from aintained at 1.0 - 1.5 m. Feeds should be provided Well balanced feed fortif	n and for this practices mentioned below may be done in small scale. m unwanted vegetation and insects and water depth should be d 1-2 times a day @ 2-3% body weight per day. fied with vitamins and minerals should be provided. re/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.



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MANIPUR BULLETIN 13th February, 2015

Imphal-East

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Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}$ to 12^{th} February, 2015)

During past three days sky was mainly clear but mainly cloudy during afternoon hours of 10^{th} & 11^{th} February. **No** rainfall was recorded during past three days. Maximum temperature range observed was 22.3-24.5 °C, range of minimum temperature observed was 4.3-6.2 °C, mean relative humidity observed in morning and afternoon were 83.67 % and 35.0 % respectively. The average wind speed range was 2.0-2.5 km/hr.

Weather forecast for next five days of Imphal-East (14th to 18th February, 2015)

There may be rains from Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of 25.0-26.0 °C & minimum temp. 6.0-7.0 °C. Relative humidity may reach upto 92 % (maximum RH) & 27 % (minimum RH). The average wind speed may be 4-5 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	-	-	
Pre-kharif Rice	Land Preparation for nursery		 - Prepare nursery bed of 700 m² area, apply well decomposed FYM/compost @ 1 t/700 m² at final leveling. Seed rate is 60-65kg for a hectare. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. - Soaking and incubation of seeds may be started before sowing when minimum temperature reachs 10-12 °C.
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain soil moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
		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.
			Irrigation is essential at this stage for sustaining favorable condition for seed formation.
Pulses (Field pea/ Lentil)	Fruiting and maturity		As a prophylactic measure spray Bayleton (Triademefon 25% W.P.) @ 7gm / lit of water against powdery mildew and yellow rust after harvesting the mature ones. Well filled up green pods should be harvested. Also top dressing @ 20 kg Urea per ha may be applied after first picking.
Storage			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Recommended varieties are- 1. Arka Anamika 2. Pusa Sawani
Mango	Flowering	Leaf Hopper	Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.



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			Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Potato		Tuber formation to maturity		 For seed purpose: Removal off-types and plants showing mottling, mosaic, crinkle, necrosis and leaf rolling may be followed twice during the growing season. Also, remove plants showing symptoms of purple top roll. Blight and leaf spot disease must be controlled by spraying Mancozeb @ 0.2% alternatively with Copper Oxichloride @ 0.3% or with Sixer.
Animal Sc		T ~ .	5. (1.0	
Name of the ar	nımal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry All susceptible ag groups (as and wirequired)		groups (as and when	Coccidiosis Ranikhet disease	Give Coximar @ 2g/lit of drinking water for 5-7 days. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
Sheep/ Goat		Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.
			Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
Pig		Above 3 months of	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffa	ılo/	Above 3 months of	Deworming	Deworm using TolzanF @ 100ml/300kg body weight.
Mithun		age (as and when required)	F.M.D.	- Vaccinate against F.M.D.
		required)	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.
Fishery:			J	1
Type of Farming			gro-metrological advisories	
Carp/ Catfish culture	Stock maintenance - S - P ma - F - V		Ponds should be free from naintained at 1.0 - 1.5 m. Feeds should be provided Well balanced feed fortif	n and for this practices mentioned below may be done in small scale. m unwanted vegetation and insects and water depth should be d 1-2 times a day @ 2-3% body weight per day. fied with vitamins and minerals should be provided. re/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.



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Imphal-West

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Weather forecast for next five days of Imphal-West (14th to 18th February, 2015)

There may be rains from Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of 25.0-26.0 °C & minimum temp. 6.0-7.0 °C. Relative humidity may reach upto 93 % (maximum RH) & 26 % (minimum RH). The average wind speed may be 5 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		-	
Pre-kharif Rice	Land Preparation for nursery		 - Prepare nursery bed of 700 m² area, apply well decomposed FYM/compost @ 1 t/700 m² at final leveling. Seed rate is 60-65kg for a hectare. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. - Soaking and incubation of seeds may be started before sowing wher minimum temperature reachs 10-12 °C.
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain soil moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
		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.
			Irrigation is essential at this stage for sustaining favorable condition for seed formation.
Pulses (Field pea/ Lentil)	Fruiting and maturity		As a prophylactic measure spray Bayleton (Triademefon 25% W.P.) @ 7gm / lit of water against powdery mildew and yellow rust after harvesting the mature ones. Well filled up green pods should be harvested. Also top dressing @ 20 kg Urea per ha may be applied after first picking.
Storage			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Recommended varieties are- 1. Arka Anamika 2. Pusa Sawani
Mango	Flowering	Leaf Hopper	Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.



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



				Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
		Tuber formation to maturity			 For seed purpose: Removal off-types and plants showing mottling, mosaic, crinkle, necrosis and leaf rolling may be followed twice during the growing season. Also, remove plants showing symptoms of purple top roll. Blight and leaf spot disease must be controlled by spraying Mancozeb @ 0.2% alternatively with Copper Oxichloride @ 0.3% or with Sixer.
Animal Sci				D : /: 6	
Name of the ani	ımal	Growth stage		Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age		Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
	groups (as and who required)			Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
Sheep/ Goat		Above 3 months of age (as and when required)		Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.
				Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
Pig		Above 3 months of age (as and when		Swine Fever	- Vaccinate against swine fever after the age of 3 months.
				Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		required)		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffal	lo/	Above 3 months o	f	Deworming	Deworm using TolzanF @ 100ml/300kg body weight.
Mithun		age (as and when required)		F.M.D.	- Vaccinate against F.M.D.
		required)		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.
Fishery:		I .		J	
Type of	Stage & A		Agro	o-metrological advisories	
Farming Carp/		Ianagement tock maintenance - S		ock fish for next season	n and for this practices mentioned below may be done in small scale.
Catfish culture	- : m		- Po mai	onds should be free from tained at 1.0 - 1.5 m.	n unwanted vegetation and insects and water depth should be
					1 1-2 times a day @ 2-3% body weight per day.
				ied with vitamins and minerals should be provided. e/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 13th February, 2015

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 14th to 18th February, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}$ to 12^{th} February, 2015)

During past three days sky was mainly clear but mainly cloudy during afternoon hours of 10^{th} & 11^{th} February. **No** rainfall was recorded during past three days. Maximum temperature range observed was 22.3-24.5 °C, range of minimum temperature observed was 4.3-6.2 °C, mean relative humidity observed in morning and afternoon were 83.67 % and 35.0 % respectively. The average wind speed range was 2.0-2.5 km/hr.

Weather forecast for next five days of Senapati (14th to 18th February, 2015)

There may be rains from Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of $23.0-25.0\,^{\circ}$ C & minimum temp. $11.0-12.0\,^{\circ}$ C. Relative humidity may reach upto 91 % (maximum RH) & 29 % (minimum RH). The average wind speed may be 4-5 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		J.	
Pre-kharif Rice	Land Preparation for nursery		 - Prepare nursery bed of 700 m² area, apply well decomposed FYM/compost @ 1 t/700 m² at final leveling. Seed rate is 60-65kg for a hectare. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. - Soaking and incubation of seeds may be started before sowing wher minimum temperature reachs 10-12 °C.
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain soil moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
		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.
			Irrigation is essential at this stage for sustaining favorable condition for seed formation.
Pulses (Field pea/ Lentil)	Fruiting and maturity		As a prophylactic measure spray Bayleton (Triademefon 25% W.P.) @ 7gm / lit of water against powdery mildew and yellow rust after harvesting the mature ones. Well filled up green pods should be harvested. Also top dressing @ 20 kg Urea per ha may be applied after first picking.
Storage			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Recommended varieties are- 1. Arka Anamika 2. Pusa Sawani
Mango	Flowering	Leaf Hopper	Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.



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			Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.	
Animal Sc					
Name of the an	imal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age		Give Coximar @ 2g/lit of drinking water for 5-7 days.	
		groups (as and wh required)	Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers). 	
Sheep/ Goat		Above 3 months of age (as and when required)	f Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.	
			Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.	
Pig		Above 3 months o	f Swine Fever	- Vaccinate against swine fever after the age of 3 months.	
		age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
		required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buffa	lo/	Above 3 months o	f Deworming	Deworm using TolzanF @ 100ml/300kg body weight.	
Mithun		age (as and when required)	F.M.D.	- Vaccinate against F.M.D.	
		required)	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.	
Fishery:			J		
Type of Farming	Stage & Management		Agro-metrological advisories		
Carp/	Stock maintenance		- Stock fish for next season and for this practices mentioned below may be done in small scale.		
Catfish			- Ponds should be free from unwanted vegetation and insects and water depth should be		
culture			maintained at 1.0 - 1.5 m.		
				d 1-2 times a day @ 2-3% body weight per day.	
				fied with vitamins and minerals should be provided.	
			- Apply Green AQ @ 4llti	re/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	

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



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 13th February, 2015

Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 14th to 18th February, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}$ to 12^{th} February, 2015)

During past three days sky was mainly clear but mainly cloudy during afternoon hours of 10^{th} & 11^{th} February. **No** rainfall was recorded during past three days. Maximum temperature range observed was 22.3-24.5 °C, range of minimum temperature observed was 4.3-6.2 °C, mean relative humidity observed in morning and afternoon were 83.67 % and 35.0 % respectively. The average wind speed range was 2.0-2.5 km/hr.

Weather forecast for next five days of Tamenglong (14th to 18th February, 2015)

There may be rains from Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of 23.0-24.0 °C & minimum temp. 5.0-7.0 °C. Relative humidity may reach upto 94 % (maximum RH) & 26 % (minimum RH). The average wind speed may be 4-5 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		J.	
Pre-kharif Rice	Land Preparation for nursery		 - Prepare nursery bed of 700 m² area, apply well decomposed FYM/compost @ 1 t/700 m² at final leveling. Seed rate is 60-65kg for a hectare. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. - Soaking and incubation of seeds may be started before sowing wher minimum temperature reachs 10-12 °C.
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain soil moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
		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.
			Irrigation is essential at this stage for sustaining favorable condition for seed formation.
Pulses (Field pea/ Lentil)	Fruiting and maturity		As a prophylactic measure spray Bayleton (Triademefon 25% W.P.) @ 7gm / lit of water against powdery mildew and yellow rust after harvesting the mature ones. Well filled up green pods should be harvested. Also top dressing @ 20 kg Urea per ha may be applied after first picking.
Storage			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Recommended varieties are- 1. Arka Anamika 2. Pusa Sawani
Mango	Flowering	Leaf Hopper	Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.



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				Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.	
Potato Tuber formation maturity		Tuber formation maturity	to		 For seed purpose: Removal off-types and plants showing mottling, mosaic, crinkle, necrosis and leaf rolling may be followed twice during the growing season. Also, remove plants showing symptoms of purple top roll. Blight and leaf spot disease must be controlled by spraying Mancozeb @ 0.2% alternatively with Copper Oxichloride @ 0.3% or with Sixer. 	
Animal Sci						
Name of the an	imal	Growth stage		Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age groups (as and when		Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.	
groups (as required)			CII	Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers). 	
Sheep/ Goat		Above 3 months of age (as and when required)		Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.	
				Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.	
Pig		Above 3 months of age (as and when required)		Swine Fever	- Vaccinate against swine fever after the age of 3 months.	
				Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
				Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buffal	lo/	Above 3 months of age (as and when required)		Deworming	Deworm using TolzanF @ 100ml/300kg body weight.	
Mithun				F.M.D.	- Vaccinate against F.M.D.	
				Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.	
Fishery:		1		J		
Type of			Agre	o-metrological advisories		
Farming Corn/		agement		ook fish for novt sosso	n and for this practices mentioned below may be done in small scale.	
Carp/ Catfish culture		namichance	- Po mai	onds should be free from tained at 1.0 - 1.5 m.	n unwanted vegetation and insects and water depth should be	
				 Feeds should be provided 1-2 times a day @ 2-3% body weight per day. Well balanced feed fortified with vitamins and minerals should be provided. 		
					e/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 13th February, 2015

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 14th to 18th February, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}$ to 12^{th} February, 2015)

During past three days sky was mainly clear but mainly cloudy during afternoon hours of 10^{th} & 11^{th} February. **No** rainfall was recorded during past three days. Maximum temperature range observed was 22.3-24.5 °C, range of minimum temperature observed was 4.3-6.2 °C, mean relative humidity observed in morning and afternoon were 83.67 % and 35.0 % respectively. The average wind speed range was 2.0-2.5 km/hr.

Weather forecast for next five days of Thoubal (14th to 18th February, 2015)

There may be rains from Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of $22.0-23.0\,^{\circ}$ C & minimum temp. $6.0-7.0\,^{\circ}$ C. Relative humidity may reach upto 93 % (maximum RH) & 32 % (minimum RH). The average wind speed may be 2-6 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	-	-	
Pre-kharif Rice	Land Preparation for nursery		 - Prepare nursery bed of 700 m² area, apply well decomposed FYM/compost @ 1 t/ 700 m² at final leveling. Seed rate is 60-65kg for a hectare. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. - Soaking and incubation of seeds may be started before sowing wher minimum temperature reachs 10-12 °C.
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain soil moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
		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.
			Irrigation is essential at this stage for sustaining favorable condition for seed formation.
Pulses (Field pea/ Lentil)	Fruiting and maturity		As a prophylactic measure spray Bayleton (Triademefon 25% W.P.) @ 7gm / lit of water against powdery mildew and yellow rust after harvesting the mature ones. Well filled up green pods should be harvested. Also top dressing @ 20 kg Urea per ha may be applied after first picking.
Storage			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Recommended varieties are- 1. Arka Anamika 2. Pusa Sawani
Mango	Flowering	Leaf Hopper	Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.



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			Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
		Tuber formation to maturity		 For seed purpose: Removal off-types and plants showing mottling, mosaic, crinkle, necrosis and leaf rolling may be followed twice during the growing season. Also, remove plants showing symptoms of purple top roll. Blight and leaf spot disease must be controlled by spraying Mancozeb @ 0.2% alternatively with Copper Oxichloride @ 0.3% or with Sixer.
Animal Sc		1 ~ .		
Name of the ar	ıımal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age groups (as and when required)	Coccidiosis Ranikhet disease	Give Coximar @ 2g/lit of drinking water for 5-7 days. 1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
Sheep/ Goat		Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.
			Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
Pig		Above 3 months of	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffa	ilo/	Above 3 months of	Deworming	Deworm using TolzanF @ 100ml/300kg body weight.
Mithun		age (as and when required)	F.M.D.	- Vaccinate against F.M.D.
		required)	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.
Fishery:		I		1
Type of Farming	Stage & Agr Management		gro-metrological advisories	
Carp/ Catfish culture	Stock maintenance - S - P ma - F - W		Ponds should be free from naintained at 1.0 - 1.5 m. Feeds should be provided Well balanced feed fortif	n and for this practices mentioned below may be done in small scale. m unwanted vegetation and insects and water depth should be d 1-2 times a day @ 2-3% body weight per day. fied with vitamins and minerals should be provided. fie/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 13th February, 2015

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 14th to 18th February, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}$ to 12^{th} February, 2015)

During past three days sky was mainly clear but mainly cloudy during afternoon hours of 10^{th} & 11^{th} February. **No** rainfall was recorded during past three days. Maximum temperature range observed was 22.3-24.5 °C, range of minimum temperature observed was 4.3-6.2 °C, mean relative humidity observed in morning and afternoon were 83.67 % and 35.0 % respectively. The average wind speed range was 2.0-2.5 km/hr.

Weather forecast for next five days of Ukhrul (14th to 18th February, 2015)

There may be rains from Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of 23.0-25.0 °C & minimum temp. 11.0-12.0 °C. Relative humidity may reach upto 91 % (maximum RH) & 31 % (minimum RH). The average wind speed may be 3-5 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	<u> </u>	4	
Pre-kharif Rice	Land Preparation for nursery		 - Prepare nursery bed of 700 m² area, apply well decomposed FYM/compost @ 1 t/700 m² at final leveling. Seed rate is 60-65kg for a hectare. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. - Soaking and incubation of seeds may be started before sowing when minimum temperature reachs 10-12 °C.
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain soil moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
		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. Irrigation is essential at this stage for sustaining favorable condition for seed formation.
Pulses (Field pea/ Lentil)	Fruiting and maturity		As a prophylactic measure spray Bayleton (Triademefon 25% W.P.) @ 7gm / lit of water against powdery mildew and yellow rust after harvesting the mature ones. Well filled up green pods should be harvested. Also top dressing @ 20 kg Urea per ha may be applied after first picking.
Storage			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Recommended varieties are- 1. Arka Anamika 2. Pusa Sawani
Mango	Flowering	Leaf Hopper	Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.



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



"Integrated Agromet Advisory Services"

			Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.	
Animal Sc					
Name of the ar	imal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age		Give Coximar @ 2g/lit of drinking water for 5-7 days.	
		groups (as and wherequired)	Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers). 	
Sheep/ Goat		Above 3 months o age (as and when required)	f Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intradermally.	
			Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.	
Pig		Above 3 months o	f Swine Fever	- Vaccinate against swine fever after the age of 3 months.	
		age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
		required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buffalo/ A		Above 3 months o	f Deworming	Deworm using TolzanF @ 100ml/300kg body weight.	
Mithun		age (as and when required)	F.M.D.	- Vaccinate against F.M.D.	
		required)	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.	
Fishery:					
Type of Farming	Stage & Management		Agro-metrological advisories		
Carp/	Stock maintenance		- Stock fish for next season and for this practices mentioned below may be done in small scale.		
Catfish			- Ponds should be free from unwanted vegetation and insects and water depth should be		
culture			maintained at 1.0 - 1.5 m.		
			- Feeds should be provided 1-2 times a day @ 2-3% body weight per day.		
			 Well balanced feed fortified with vitamins and minerals should be provided. Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. 		
			- Appry Green AQ @ 4llti	te/ na or mne @ 200kg/ na. Maintain good quanty or pond water.	

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