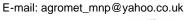
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





# "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 10<sup>th</sup> February, 2015

#### Bishnupur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur
Imphal - West (6 <sup>th</sup> to 9 <sup>th</sup> February, 2015)	(11 <sup>th</sup> to 15 <sup>th</sup> February, 2015)
During past four days sky was mainly clear to partly cloudy	
but mainly cloudy during afternoon hours of 6 <sup>th</sup> February. No	There may be no rain upto Saturday. Sky will be mainly
rainfall was recorded during past four days. Maximum	clear to partly cloudy with maximum temp. of $25.0 - 26.0$
temperature range observed was 21.8 - 24.8 °C, range of	$^{\circ}$ C & minimum temp. 6.0 – 7.0 $^{\circ}$ C. Relative humidity may
minimum temperature observed was 3.4 - 5.0 °C, mean	reach upto 80 % (maximum RH) & 26 % (minimum RH).
relative humidity observed in morning and afternoon were	The average wind speed may be 4-6 km/ hr during next
90.25 % and 40.75 % respectively. The average wind speed	five days.
range was $1.5 - 2.2$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Land Preparation for nursery		<ul> <li>Prepare 700 m<sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m<sup>2</sup> at final leveling.</li> <li>Nursery bed should be well puddled and leveled to avoid uneven stagnation of water.</li> <li>Seed rate is 60-65kg for a hectare.</li> <li>Soaking and incubation of seeds may be started before sowing when minimum temperature reachs 10-12 °C.</li> </ul>
Rabi Maize	Vegetative	-	- If the soil is dry, give light irrigation to maintain moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses (Field pea/ Lentil)	Fruiting and maturity		- If the soil is dry, give light irrigation to maintain moisture status.
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. Spacing is 60cm x 40cm.
Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		<ul> <li>Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold.</li> <li>Light watering must be done for already transplanted seedlings during morning hours.</li> </ul>





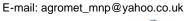
# "Integrated Agromet Advisory Services"

Onion/ Garli	с	Bulb formation			<ul> <li>Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase.</li> <li>If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level.</li> </ul>		
Potato	Tuber formation to maturity						<ul> <li>For seed purpose: <ul> <li>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.</li> <li>Maturity days should be strictly maintained as per variety.</li> </ul> </li> <li>Blight and leaf spot disease must be controlled by spraying Mancozeb @ 0.2% alternatively with Copper Oxichloride @ 0.3% or with Sixer.</li> </ul>
Animal Sci		1		1			
Name of the an	imal	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 wh required)	en	Ranikhet disease	<ol> <li>F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.</li> <li>R<sub>2</sub>B vaccine of 8-9 weeks of age group birds (layers).</li> <li>Killed ND virus vaccine of 16-18 weeks of age group birds (layers).</li> </ol>		
				Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking.		
Sheep/ Goat		Above 3 months of age (as and when required)		Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.		
				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		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.		
				Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.		
Fishery:		ł		J			
Type of Farming	Stage & Management		Agr	o-metrological advisories			
Carp/ Catfish culture	Stock maintenance		- P		n and for this practices mentioned below may be done in small scale. 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.

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





## "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 10<sup>th</sup> February, 2015

#### Chandel

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (6 <sup>th</sup> to 9 <sup>th</sup> February, 2015)	(11 <sup>th</sup> to 15 <sup>th</sup> February, 2015)
During past four days sky was mainly clear to partly cloudy	
but mainly cloudy during afternoon hours of 6 <sup>th</sup> February. No	There may be no rain upto Saturday. Sky will be mainly
rainfall was recorded during past four days. Maximum	clear to partly cloudy with maximum temp. of $24.0 - 25.0$
temperature range observed was 21.8 - 24.8 °C, range of	$^{\circ}$ C & minimum temp. 5.0 – 7.0 $^{\circ}$ C. Relative humidity may
minimum temperature observed was 3.4 - 5.0 °C, mean	reach upto 84 % (maximum RH) & 29 % (minimum RH).
relative humidity observed in morning and afternoon were	The average wind speed may be 4-6 km/ hr during next
90.25 % and 40.75 % respectively. The average wind speed	five days.
range was 1.5 – 2.2 km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		]	
Pre-kharif Rice	Land Preparation for nursery		<ul> <li>Prepare 700 m<sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m<sup>2</sup> at final leveling.</li> <li>Nursery bed should be well puddled and leveled to avoid uneven stagnation of water.</li> <li>Seed rate is 60-65kg for a hectare.</li> <li>Soaking and incubation of seeds may be started before sowing when minimum temperature reachs 10-12 °C.</li> </ul>
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses (Field pea/ Lentil)	Fruiting and maturity		- If the soil is dry, give light irrigation to maintain moisture status.
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. Spacing is 60cm x 40cm.
Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		<ul> <li>Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold.</li> <li>Light watering must be done for already transplanted seedlings during morning hours.</li> </ul>





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

# "Integrated Agromet Advisory Services"

Onion/ Garli	ic	Bulb formation			<ul> <li>-Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase.</li> <li>- If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion cheveld be above the ground level.</li> </ul>
Potato		Tuber formation maturity	to		<ul> <li>should be above the ground level.</li> <li>For seed purpose: <ul> <li>Removal off-types and plants showing mottling, mosaic,</li> <li>crinkle, necrosis and leaf rolling may be followed twice during the growing season. Also, remove plants showing symptoms of purple top roll.</li> <li>Maturity days should be strictly maintained as per variety.</li> </ul> </li> <li>Blight and leaf spot disease must be controlled by spraying Mancozeb @ 0.2% alternatively with Copper Oxichloride @ 0.3% or with Sixer.</li> </ul>
Animal Sc				1	
Name of the an	imal	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 when required)		Ranikhet disease	<ol> <li>F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.</li> <li>R<sub>2</sub>B vaccine of 8-9 weeks of age group birds (layers).</li> <li>Killed ND virus vaccine of 16-18 weeks of age group birds (layers).</li> </ol>
				Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking.
Sheep/ Goat		Above 3 months of age (as and when required)		Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
				Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
Pig		Above 3 months of	f	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		age (as and when		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 of	f	Deworming	Deworm using TolzanF @ 100ml/300kg body weight.
Mithun		age (as and when		F.M.D.	- Vaccinate against F.M.D.
		required)		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.
Fishery:		<u>.</u>		,	·
Type of Farming	Stage & Manage	Stage &		o-metrological advisories	
Carp/ Catfish culture	Stock maintenance		- Pe		n and for this practices mentioned below may be done in small scale. 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-mail: agromet\_mnp@yahoo.co.uk



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



# "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 10<sup>th</sup> February, 2015

#### Churachandpur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur
Imphal - West (6 <sup>th</sup> to 9 <sup>th</sup> February, 2015)	(11 <sup>th</sup> to 15 <sup>th</sup> February, 2015)
During past four days sky was mainly clear to partly cloudy	
but mainly cloudy during afternoon hours of 6 <sup>th</sup> February. No	There may be no rain upto Saturday. Sky will be mainly
rainfall was recorded during past four days. Maximum	clear to partly cloudy with maximum temp. of $25.0 - 26.0$
temperature range observed was 21.8 - 24.8 °C, range of	$^{\circ}$ C & minimum temp. 6.0 – 8.0 $^{\circ}$ C. Relative humidity may
minimum temperature observed was 3.4 - 5.0 °C, mean	reach upto 85 % (maximum RH) & 27 % (minimum RH).
relative humidity observed in morning and afternoon were	The average wind speed may be 4-6 km/ hr during next
90.25 % and 40.75 % respectively. The average wind speed	five days.
range was 1.5 – 2.2 km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	- 1		
Pre-kharif Rice	Land Preparation for nursery		<ul> <li>Prepare 700 m<sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m<sup>2</sup> at final leveling.</li> <li>Nursery bed should be well puddled and leveled to avoid uneven stagnation of water.</li> <li>Seed rate is 60-65kg for a hectare.</li> <li>Soaking and incubation of seeds may be started before sowing when minimum temperature reachs 10-12 °C.</li> </ul>
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses (Field pea/ Lentil)	Fruiting and maturity		- If the soil is dry, give light irrigation to maintain moisture status.
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		J	
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Spacing is 60cm x 40cm.
Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		<ul> <li>Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold.</li> <li>Light watering must be done for already transplanted seedlings during morning hours.</li> </ul>





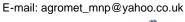
# "Integrated Agromet Advisory Services"

Onion/ Garli	c	Bulb formation			<ul> <li>-Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase.</li> <li>- If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level.</li> </ul>
Potato Tuber formation maturity		to		<ul> <li>For seed purpose: <ul> <li>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.</li> <li>Maturity days should be strictly maintained as per variety.</li> </ul> </li> <li>Blight and leaf spot disease must be controlled by spraying Mancozeb @ 0.2% alternatively with Copper Oxichloride @ 0.3% or with Sixer.</li> </ul>	
Animal Sci Name of the an		G 1			
	imai	Growth stage		Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age groups (as and whe		Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
		required)		Ranikhet disease	<ol> <li>F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.</li> <li>R<sub>2</sub>B vaccine of 8-9 weeks of age group birds (layers).</li> <li>Killed ND virus vaccine of 16-18 weeks of age group birds (layers).</li> </ol>
				Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking.
Sheep/ Goat		Above 3 months of age (as and when required)		Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
				Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
Pig		Above 3 months of	f	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		age (as and when		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 of	f	Deworming	Deworm using TolzanF @ 100ml/300kg body weight.
Mithun		age (as and when		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 & Manager		Agr	o-metrological advisories	
Carp/ Catfish culture	Stock maintenance		- Po		n and for this practices mentioned below may be done in small scale. 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.

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





### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 10<sup>th</sup> February, 2015

#### Imphal-East

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal-East
Imphal - West (6 <sup>th</sup> to 9 <sup>th</sup> February, 2015)	(11 <sup>th</sup> to 15 <sup>th</sup> February, 2015)
During past four days sky was mainly clear to partly cloudy	
but mainly cloudy during afternoon hours of 6 <sup>th</sup> February. No	There may be no rain upto Saturday. Sky will be mainly
rainfall was recorded during past four days. Maximum	clear to partly cloudy with maximum temp. of $23.0 - 26.0$
temperature range observed was 21.8 - 24.8 °C, range of	$^{\circ}$ C & minimum temp. 6.0 – 8.0 $^{\circ}$ C. Relative humidity may
minimum temperature observed was 3.4 - 5.0 °C, mean	reach upto 94 % (maximum RH) & 24 % (minimum RH).
relative humidity observed in morning and afternoon were	The average wind speed may be 2-6 km/ hr during next
90.25 % and 40.75 % respectively. The average wind speed	five days.
range was $1.5 - 2.2$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Land Preparation for nursery		<ul> <li>Prepare 700 m<sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m<sup>2</sup> at final leveling.</li> <li>Nursery bed should be well puddled and leveled to avoid uneven stagnation of water.</li> <li>Seed rate is 60-65kg for a hectare.</li> <li>Soaking and incubation of seeds may be started before sowing when minimum temperature reachs 10-12 °C.</li> </ul>
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses (Field pea/ Lentil)	Fruiting and maturity		- If the soil is dry, give light irrigation to maintain moisture status.
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. Spacing is 60cm x 40cm.
Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		<ul> <li>Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold.</li> <li>Light watering must be done for already transplanted seedlings during morning hours.</li> </ul>





# "Integrated Agromet Advisory Services"

Onion/ Garli	c	Bulb formation			<ul> <li>-Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase.</li> <li>- If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level.</li> </ul>
Potato	Tuber formation to maturity		to		<ul> <li>For seed purpose: <ul> <li>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.</li> <li>Maturity days should be strictly maintained as per variety.</li> </ul> </li> <li>Blight and leaf spot disease must be controlled by spraying Mancozeb @ 0.2% alternatively with Copper Oxichloride @ 0.3% or with Sixer.</li> </ul>
Animal Sci		C 1		<b>D</b> : (: C :	
Name of the an	ımal	Growth stage		Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age groups (as and whe		Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
		required)		Ranikhet disease	<ol> <li>F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.</li> <li>R<sub>2</sub>B vaccine of 8-9 weeks of age group birds (layers).</li> <li>Killed ND virus vaccine of 16-18 weeks of age group birds (layers).</li> </ol>
				Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking.
<b>.</b>		Above 3 months of age (as and when required)		Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
				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		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.
		Above 3 months o	f	Deworming	Deworm using TolzanF @ 100ml/300kg body weight.
		age (as and when		F.M.D.	- Vaccinate against F.M.D.
		requireu)		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.
Fishery:					
Type of Farming	Stage & Management Stock maintenance			o-metrological advisories	
Carp/ Catfish culture			- P		n and for this practices mentioned below may be done in small scale. 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.

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



### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 10<sup>th</sup> February, 2015

#### Imphal-West

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal-West
Imphal - West (6 <sup>th</sup> to 9 <sup>th</sup> February, 2015)	(11 <sup>th</sup> to 15 <sup>th</sup> February, 2015)
During past four days sky was mainly clear to partly cloudy	
but mainly cloudy during afternoon hours of 6 <sup>th</sup> February. <b>No</b>	There may be no rain upto Saturday. Sky will be mainly
rainfall was recorded during past four days. Maximum	clear to partly cloudy with maximum temp. of $24.0 - 26.0$
temperature range observed was 21.8 - 24.8 °C, range of	$^{\circ}$ C & minimum temp. 5.0 – 8.0 $^{\circ}$ C. Relative humidity may
minimum temperature observed was 3.4 - 5.0 °C, mean	reach upto 92 % (maximum RH) & 25 % (minimum RH).
relative humidity observed in morning and afternoon were	The average wind speed may be 2-6 km/ hr during next
90.25 % and 40.75 % respectively. The average wind speed	five days.
range was $1.5 - 2.2$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Land Preparation for nursery		<ul> <li>Prepare 700 m<sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m<sup>2</sup> at final leveling.</li> <li>Nursery bed should be well puddled and leveled to avoid uneven stagnation of water.</li> <li>Seed rate is 60-65kg for a hectare.</li> <li>Soaking and incubation of seeds may be started before sowing when minimum temperature reachs 10-12 °C.</li> </ul>
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses (Field pea/ Lentil)	Fruiting and maturity		- If the soil is dry, give light irrigation to maintain moisture status.
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. Spacing is 60cm x 40cm.
Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		<ul> <li>Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold.</li> <li>Light watering must be done for already transplanted seedlings during morning hours.</li> </ul>





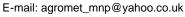
# "Integrated Agromet Advisory Services"

Onion/ Garli	c	Bulb formation			<ul> <li>-Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase.</li> <li>- If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level.</li> </ul>
Potato		Tuber formation maturity	to		<ul> <li>For seed purpose: <ul> <li>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.</li> <li>Maturity days should be strictly maintained as per variety.</li> </ul> </li> <li>Blight and leaf spot disease must be controlled by spraying Mancozeb @ 0.2% alternatively with Copper Oxichloride @ 0.3% or with Sixer.</li> </ul>
Animal Sci		<b>G</b> 1		<b>D</b> : (: C :	
Name of the an	ımal	Growth stage		Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age groups (as and whe		Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
		required)		Ranikhet disease	<ol> <li>F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.</li> <li>R<sub>2</sub>B vaccine of 8-9 weeks of age group birds (layers).</li> <li>Killed ND virus vaccine of 16-18 weeks of age group birds (layers).</li> </ol>
				Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking.
Sheep/ Goat		Above 3 months of age (as and when required)		Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
				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		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.
		requireu)		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.
Fishery:					
Type of Farming	Stage & Management			o-metrological advisories	
Carp/ Catfish culture	Stock maintenance		- P		n and for this practices mentioned below may be done in small scale. 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.

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### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 10<sup>th</sup> February, 2015

#### Senapati

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati
Imphal - West (6 <sup>th</sup> to 9 <sup>th</sup> February, 2015)	(11 <sup>th</sup> to 15 <sup>th</sup> February, 2015)
During past four days sky was mainly clear to partly cloudy	
but mainly cloudy during afternoon hours of 6 <sup>th</sup> February. No	There may be no rain upto Saturday. Sky will be mainly
rainfall was recorded during past four days. Maximum	clear to partly cloudy with maximum temp. of $23.0 - 25.0$
temperature range observed was 21.8 - 24.8 °C, range of	$^{\circ}$ C & minimum temp. 3.0 – 5.0 $^{\circ}$ C. Relative humidity may
minimum temperature observed was 3.4 - 5.0 °C, mean	reach upto 98 % (maximum RH) & 24 % (minimum RH).
relative humidity observed in morning and afternoon were	The average wind speed may be 2-5 km/ hr during next
90.25 % and 40.75 % respectively. The average wind speed	five days.
range was $1.5 - 2.2$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		]	
Pre-kharif Rice	Land Preparation for nursery		<ul> <li>Prepare 700 m<sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m<sup>2</sup> at final leveling.</li> <li>Nursery bed should be well puddled and leveled to avoid uneven stagnation of water.</li> <li>Seed rate is 60-65kg for a hectare.</li> <li>Soaking and incubation of seeds may be started before sowing when minimum temperature reachs 10-12 °C.</li> </ul>
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses (Field pea/ Lentil)	Fruiting and maturity		- If the soil is dry, give light irrigation to maintain moisture status.
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. Spacing is 60cm x 40cm.
Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		<ul> <li>Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold.</li> <li>Light watering must be done for already transplanted seedlings during morning hours.</li> </ul>

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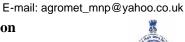
Onion/ Garl	ic	Bulb formation		<ul> <li>-Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase.</li> <li>- If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion</li> </ul>
				should be above the ground level.
Animal Sc	iences			
Name of the ar		Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age		Give Coximar @ 2g/lit of drinking water for 5-7 days.
grouj		groups (as and who required)	en Ranikhet disease	<ol> <li>F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.</li> <li>R<sub>2</sub>B vaccine of 8-9 weeks of age group birds (layers).</li> <li>Killed ND virus vaccine of 16-18 weeks of age group birds (layers).</li> </ol>
			Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking.
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 intra- dermally.
			Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
Pig		Above 3 months of	f Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		age (as and when	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	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:		1	11	
Type of Farming	Stage & Management		Agro-metrological advisories	
Carp/	Stock maintenance		- Stock fish for next seaso	n and for this practices mentioned below may be done in small scale.

Farming	Management	
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.

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

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## "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 10<sup>th</sup> February, 2015

#### Tamenglong

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (6 <sup>th</sup> to 9 <sup>th</sup> February, 2015)	(11 <sup>th</sup> to 15 <sup>th</sup> February, 2015)
During past four days sky was mainly clear to partly cloudy	
but mainly cloudy during afternoon hours of 6 <sup>th</sup> February. No	There may be no rain upto Saturday. Sky will be mainly
rainfall was recorded during past four days. Maximum	clear to partly cloudy with maximum temp. of $25.0 - 26.0$
temperature range observed was 21.8 - 24.8 °C, range of	$^{\circ}$ C & minimum temp. 3.0 – 6.0 $^{\circ}$ C. Relative humidity may
minimum temperature observed was 3.4 - 5.0 °C, mean	reach upto 88 % (maximum RH) & 25 % (minimum RH).
relative humidity observed in morning and afternoon were	The average wind speed may be 3-6 km/ hr during next
90.25 % and 40.75 % respectively. The average wind speed	five days.
range was $1.5 - 2.2$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		4	
Pre-kharif Rice	Land Preparation for nursery		<ul> <li>Prepare 700 m<sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m<sup>2</sup> at final leveling.</li> <li>Nursery bed should be well puddled and leveled to avoid uneven stagnation of water.</li> <li>Seed rate is 60-65kg for a hectare.</li> <li>Soaking and incubation of seeds may be started before sowing when minimum temperature reachs 10-12 °C.</li> </ul>
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses (Field pea/ Lentil)	Fruiting and maturity		- If the soil is dry, give light irrigation to maintain moisture status.
Storage			<ul> <li>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.</li> <li>After proper drying, store grains/ seeds in well ventilated godowns.</li> </ul>
Horticulture Crops			
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Spacing is 60cm x 40cm.
Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		<ul> <li>Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold.</li> <li>Light watering must be done for already transplanted seedlings during morning hours.</li> </ul>





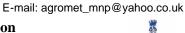
# "Integrated Agromet Advisory Services"

Onion/ Garli	с	Bulb formation			<ul> <li>Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase.</li> <li>If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level.</li> </ul>
Potato		Tuber formation maturity	to		<ul> <li>For seed purpose: <ul> <li>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.</li> <li>Maturity days should be strictly maintained as per variety.</li> </ul> </li> <li>Blight and leaf spot disease must be controlled by spraying Mancozeb @ 0.2% alternatively with Copper Oxichloride @ 0.3% or with Sixer.</li> </ul>
Animal Sci					
	ımal	Growth stage		Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age groups (as and whe		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
		required)			<ul> <li>second dose may be given at 30days for all birds.</li> <li>2. R<sub>2</sub>B vaccine of 8-9 weeks of age group birds (layers).</li> <li>3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).</li> </ul>
				Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking.
Sheep/ Goat		Above 3 months of age (as and when required)		Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
				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		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/		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		)	o-metrological advisories	
Carp/ Catfish culture	Stock maintenance		- P		n and for this practices mentioned below may be done in small scale. 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.

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# "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 10<sup>th</sup> February, 2015

#### Thoubal

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal
Imphal - West (6 <sup>th</sup> to 9 <sup>th</sup> February, 2015)	(11 <sup>th</sup> to 15 <sup>th</sup> February, 2015)
During past four days sky was mainly clear to partly cloudy	
but mainly cloudy during afternoon hours of 6 <sup>th</sup> February. No	There may be no rain upto Saturday. Sky will be mainly
rainfall was recorded during past four days. Maximum	clear to partly cloudy with maximum temp. of $24.0 - 25.0$
temperature range observed was 21.8 - 24.8 °C, range of	$^{\circ}$ C & minimum temp. 5.0 – 7.0 $^{\circ}$ C. Relative humidity may
minimum temperature observed was 3.4 - 5.0 °C, mean	reach upto 78 % (maximum RH) & 25 % (minimum RH).
relative humidity observed in morning and afternoon were	The average wind speed may be 4-6 km/ hr during next
90.25 % and 40.75 % respectively. The average wind speed	five days.
range was $1.5 - 2.2$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Land Preparation for nursery		<ul> <li>Prepare 700 m<sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m<sup>2</sup> at final leveling.</li> <li>Nursery bed should be well puddled and leveled to avoid uneven stagnation of water.</li> <li>Seed rate is 60-65kg for a hectare.</li> <li>Soaking and incubation of seeds may be started before sowing when minimum temperature reachs 10-12 °C.</li> </ul>
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses (Field pea/ Lentil)	Fruiting and maturity		- If the soil is dry, give light irrigation to maintain moisture status.
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. Spacing is 60cm x 40cm.
Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		<ul> <li>Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold.</li> <li>Light watering must be done for already transplanted seedlings during morning hours.</li> </ul>





# "Integrated Agromet Advisory Services"

Onion/ Garli	с	Bulb formation			<ul> <li>Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase.</li> <li>If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level.</li> </ul>
Potato		Tuber formation maturity	to		<ul> <li>For seed purpose: <ul> <li>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.</li> <li>Maturity days should be strictly maintained as per variety.</li> </ul> </li> <li>Blight and leaf spot disease must be controlled by spraying Mancozeb @ 0.2% alternatively with Copper Oxichloride @ 0.3% or with Sixer.</li> </ul>
Animal Sci		1		1	
Name of the an	imal	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 when required)		Ranikhet disease	<ol> <li>F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.</li> <li>R<sub>2</sub>B vaccine of 8-9 weeks of age group birds (layers).</li> <li>Killed ND virus vaccine of 16-18 weeks of age group birds (layers).</li> </ol>
				Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking.
Sheep/ Goat		Above 3 months of age (as and when required)		Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
				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 / Buffa	lo/	Above 3 months of		Deworming	Deworm using TolzanF @ 100ml/300kg body weight.
Mithun	age (as and when			F.M.D.	- Vaccinate against F.M.D.
		required)		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.
Fishery:		1		J	
Type of Farming	Stage & Management		Agr	o-metrological advisories	
Carp/ Catfish culture	Stock maintenance		- P		n and for this practices mentioned below may be done in small scale. n unwanted vegetation and insects and water depth should be

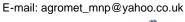
Feeds should be provided 1-2 times a day @ 2-3% body weight per day.Well balanced feed fortified with vitamins and minerals should be provided.

- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

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

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





# "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 10<sup>th</sup> February, 2015

#### Ukhrul

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (6 <sup>th</sup> to 9 <sup>th</sup> February, 2015)	(11 <sup>th</sup> to 15 <sup>th</sup> February, 2015)
During past four days sky was mainly clear to partly cloudy	
but mainly cloudy during afternoon hours of 6 <sup>th</sup> February. <b>No</b>	There may be no rain upto Saturday. Sky will be mainly
rainfall was recorded during past four days. Maximum	clear to partly cloudy with maximum temp. of $23.0 - 25.0$
temperature range observed was 21.8 - 24.8 °C, range of	$^{\circ}$ C & minimum temp. 3.0 – 5.0 $^{\circ}$ C. Relative humidity may
minimum temperature observed was 3.4 - 5.0 °C, mean	reach upto 85 % (maximum RH) & 28 % (minimum RH).
relative humidity observed in morning and afternoon were	The average wind speed may be 4-5 km/ hr during next
90.25 % and 40.75 % respectively. The average wind speed	five days.
range was $1.5 - 2.2$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		]	
Pre-kharif Rice	Land Preparation for nursery		<ul> <li>Prepare 700 m<sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m<sup>2</sup> at final leveling.</li> <li>Nursery bed should be well puddled and leveled to avoid uneven stagnation of water.</li> <li>Seed rate is 60-65kg for a hectare.</li> <li>Soaking and incubation of seeds may be started before sowing when minimum temperature reachs 10-12 °C.</li> </ul>
Rabi Maize	Vegetative		- If the soil is dry, give light irrigation to maintain moisture status.
Rapeseed/ mustard	Siliqua formation to maturity	Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses (Field pea/ Lentil)	Fruiting and maturity		- If the soil is dry, give light irrigation to maintain moisture status.
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		J	
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Spacing is 60cm x 40cm.
Mango	Flowering	Leaf Hopper	Pruning of branches from trees must be done. Avoid high density planting. Spray Cypermethrin or Fenvelerate (0.01%) followed by Carbyl (0.1%) at an interval of one week.
		Stone Weevil	Spray Carbaryl (0.1%) during this season on the trees upto a height of 2m and on all inflorescence as prophylactic measure. Apply stick band at the upper end of the trunk to prevent migration of weevils to branches for egg lying on fruit in the days to come.
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		<ul> <li>Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold.</li> <li>Light watering must be done for already transplanted seedlings during morning hours.</li> </ul>

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# "Integrated Agromet Advisory Services"

Onion/ Garl	ic	Bulb formation		-Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase.
				- If the bulb formation stage has started then it must be checked that
				the soil is not too dry also care should be taken that the neck portion
				should be above the ground level.
Animal Sc	iences			
Name of the ar	nimal	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 when required)	en Ranikhet disease	<ol> <li>F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.</li> <li>R<sub>2</sub>B vaccine of 8-9 weeks of age group birds (layers).</li> <li>Killed ND virus vaccine of 16-18 weeks of age group birds (layers).</li> </ol>
			Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking.
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 intra- dermally.
			Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
Pig		Above 3 months of	f Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		age (as and when	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/ Mithun		Above 3 months of	f Deworming	Deworm using TolzanF @ 100ml/300kg body weight.
		age (as and when	F.M.D.	- Vaccinate against F.M.D.
		required)	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.
Fishery:		1	<u> </u>	
Type of Farming	Stage & Management		Agro-metrological advisories	
Carp/	Stock maintenance		- Stock fish for next season	n and for this practices mentioned below may be done in small scale.

Farming	Management	
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.

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