



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

24th 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 25th February, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd February, 2015)

During past four days sky was mainly clear to partly cloudy but cloudy during morning hours of 22nd February. **15.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 23.2 – 26.5 °C, range of minimum temperature observed was 5.6 – 12.0 °C, mean relative humidity observed in morning and afternoon were 86.5 % and 57.8 % respectively. The average wind speed range was 1.2 – 4.1 km/hr.

Weather forecast for next five days of Bishnupur (21st to 25th February, 2015)

There may be no rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 27.0 - 29.0 °C & minimum temp. 10.0 - 12.0 °C. Relative humidity may reach upto 93 % (max RH) & 33 % (min RH). The average wind speed may be 4-6 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Nursery raising		<ul style="list-style-type: none"> - 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. - Soaking and incubation of seeds may be started before sowing when minimum temperature reaches 10-12 °C.
Rabi Maize	Pre-flowering		<ul style="list-style-type: none"> - If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done.
		Stem borer	<ul style="list-style-type: none"> - To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Rapeseed/ mustard	Siliqua formation to maturity to harvesting		<ul style="list-style-type: none"> - Irrigation is essential at this stage for sustaining favorable condition for seed formation. - Harvest the crops when the color of leaves, stem & siliquae is pale green to yellow, seeds are dark and produce rattling sound on shaking and 75% of the siliquae mature. It must be harvested during morning before drying of dew to avoid shattering of pods.
Pulses (Field pea/ Lentil)	Fruiting to maturity and harvesting		<ul style="list-style-type: none"> - Retain well filled disease free mature pods for seeds. - Give light irrigation to keep soil moist for the crops in fruiting stage.
Storage (seed)			<ul style="list-style-type: none"> - 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			
Cucurbits	Transplanting		<ul style="list-style-type: none"> - Transplant already raised 4-leaf stage in open field. Light watering must be done during morning and afternoon hours.
Broad bean	Fruiting to maturity and harvesting		<ul style="list-style-type: none"> - Neem based pesticide may be sprayed @ 5ml/ litre of water at 15 days interval to control aphids.
Chilli/ capsicum	Nursery		<ul style="list-style-type: none"> - In chillies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g/ litre of water to control the fungal attack.
Onion	Bulb formation	Leaf minor	<ul style="list-style-type: none"> - Spray Dichlorvos @ 1ml/ litre of water.
Bhindi	Sowing		<ul style="list-style-type: none"> - 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 - Arka Anamika and Pusa Sawani



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Tree bean/ Lime/ Lemon/ Khasi Mandarin/ Banana	Land preparation and collection of planting material		- Preparation of pits or field for planting tree bean/ lime/ lemon/ khasi mandarin/ banana may be started. - Collect good planting material.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
		Ranikhet disease	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 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).
		Gumboro	Vaccinate using one shot IBD vaccine against Gumboro.
		Farm premises management	Keep the farm premises neat and clean using quality disinfectants.
Sheep/ Goat	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval.
		F.M.D.	- Vaccinate against F.M.D.
Pig	Above 3 months of age (as and when required)	Hog cholera	- Vaccinate against swine fever after the age of 3 months.
		Skin infection	Give Ivermectin (Indectin tab.) @ 200mg/ kg body weight once only.
		F.M.D.	- Vaccinate against F.M.D.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

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



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MANIPUR BULLETIN

24th February, 2015

Chandel

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 25th February, 2015 as below:

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Weather forecast for next five days of Chandel (21st to 25th February, 2015)

There may be no rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 27.0 - 28.0 °C & minimum temp. 10.0 - 12.0 °C. Relative humidity may reach upto 82 % (max RH) & 33 % (min 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	Nursery raising		<ul style="list-style-type: none"> - 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. - Soaking and incubation of seeds may be started before sowing when minimum temperature reaches 10-12 °C.
Rabi Maize	Pre-flowering		<ul style="list-style-type: none"> - If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done.
		Stem borer	<ul style="list-style-type: none"> - To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Rapeseed/ mustard	Siliqua formation to maturity to harvesting		<ul style="list-style-type: none"> - Irrigation is essential at this stage for sustaining favorable condition for seed formation. - Harvest the crops when the color of leaves, stem & siliquae is pale green to yellow, seeds are dark and produce rattling sound on shaking and 75% of the siliquae mature. It must be harvested during morning before drying of dew to avoid shattering of pods.
Pulses (Field pea/ Lentil)	Fruiting to maturity and harvesting		<ul style="list-style-type: none"> - Retain well filled disease free mature pods for seeds. - Give light irrigation to keep soil moist for the crops in fruiting stage.
Storage (seed)			<ul style="list-style-type: none"> - 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			
Cucurbits	Transplanting		<ul style="list-style-type: none"> - Transplant already raised 4-leaf stage in open field. Light watering must be done during morning and afternoon hours.
Broad bean	Fruiting to maturity and harvesting		<ul style="list-style-type: none"> - Neem based pesticide may be sprayed @ 5ml/ litre of water at 15 days interval to control aphids.
Chilli/ capsicum	Nursery		<ul style="list-style-type: none"> - In chillies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g/ litre of water to control the fungal attack.
Onion	Bulb formation	Leaf minor	<ul style="list-style-type: none"> - Spray Dichlorovos @ 1ml/ litre of water.
Bhindi	Sowing		<ul style="list-style-type: none"> - 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 - Arka Anamika and Pusa Sawani



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Tree bean/ Lime/ Lemon/ Khasi Mandarin/ Banana	Land preparation and collection of planting material		<ul style="list-style-type: none"> - Preparation of pits or field for planting tree bean/ lime/ lemon/ khasi mandarin/ banana may be started. - Collect good planting material.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
		Ranikhet disease	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 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).
		Gumboro	Vaccinate using one shot IBD vaccine against Gumboro.
		Farm premises management	Keep the farm premises neat and clean using quality disinfectants.
Sheep/ Goat	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval.
		F.M.D.	- Vaccinate against F.M.D.
Pig	Above 3 months of age (as and when required)	Hog cholera	- Vaccinate against swine fever after the age of 3 months.
		Skin infection	Give Ivermectin (Indectin tab.) @ 200mg/ kg body weight once only.
		F.M.D.	- Vaccinate against F.M.D.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

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



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MANIPUR BULLETIN

24th February, 2015

Churachandpur

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Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd February, 2015)

During past four days sky was mainly clear to partly cloudy but cloudy during morning hours of 22nd February. **15.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 23.2 – 26.5 °C, range of minimum temperature observed was 5.6 – 12.0 °C, mean relative humidity observed in morning and afternoon were 86.5 % and 57.8 % respectively. The average wind speed range was 1.2 – 4.1 km/hr.

Weather forecast for next five days of Churachandpur (21st to 25th February, 2015)

There may be no rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 28.0 - 29.0 °C & minimum temp. 11.0 - 12.0 °C. Relative humidity may reach upto 94 % (max RH) & 33 % (min 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			
Pre-kharif Rice	Nursery raising		<ul style="list-style-type: none"> - 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. - Soaking and incubation of seeds may be started before sowing when minimum temperature reaches 10-12 °C.
Rabi Maize	Pre-flowering		<ul style="list-style-type: none"> - If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done.
		Stem borer	<ul style="list-style-type: none"> - To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Rapeseed/ mustard	Siliqua formation to maturity to harvesting		<ul style="list-style-type: none"> - Irrigation is essential at this stage for sustaining favorable condition for seed formation. - Harvest the crops when the color of leaves, stem & siliquae is pale green to yellow, seeds are dark and produce rattling sound on shaking and 75% of the siliquae mature. It must be harvested during morning before drying of dew to avoid shattering of pods.
Pulses (Field pea/ Lentil)	Fruiting to maturity and harvesting		<ul style="list-style-type: none"> - Retain well filled disease free mature pods for seeds. - Give light irrigation to keep soil moist for the crops in fruiting stage.
Storage (seed)			<ul style="list-style-type: none"> - 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			
Cucurbits	Transplanting		<ul style="list-style-type: none"> - Transplant already raised 4-leaf stage in open field. Light watering must be done during morning and afternoon hours.
Broad bean	Fruiting to maturity and harvesting		<ul style="list-style-type: none"> - Neem based pesticide may be sprayed @ 5ml/ litre of water at 15 days interval to control aphids.
Chilli/ capsicum	Nursery		<ul style="list-style-type: none"> - In chillies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g/ litre of water to control the fungal attack.
Onion	Bulb formation	Leaf minor	<ul style="list-style-type: none"> - Spray Dichlorovos @ 1ml/ litre of water.
Bhindi	Sowing		<ul style="list-style-type: none"> - 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 - Arka Anamika and Pusa Sawani



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Tree bean/ Lime/ Lemon/ Khasi Mandarin/ Banana	Land preparation and collection of planting material		<ul style="list-style-type: none"> - Preparation of pits or field for planting tree bean/ lime/ lemon/ khasi mandarin/ banana may be started. - Collect good planting material.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
		Ranikhet disease	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 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).
		Gumboro	Vaccinate using one shot IBD vaccine against Gumboro.
		Farm premises management	Keep the farm premises neat and clean using quality disinfectants.
Sheep/ Goat	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval.
		F.M.D.	- Vaccinate against F.M.D.
Pig	Above 3 months of age (as and when required)	Hog cholera	- Vaccinate against swine fever after the age of 3 months.
		Skin infection	Give Ivermectin (Indectin tab.) @ 200mg/ kg body weight once only.
		F.M.D.	- Vaccinate against F.M.D.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

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Scientist i/c, GKMS



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MANIPUR BULLETIN

24th February, 2015

Imphal-East

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 25th February, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd February, 2015)

During past four days sky was mainly clear to partly cloudy but cloudy during morning hours of 22nd February. **15.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 23.2 – 26.5 °C, range of minimum temperature observed was 5.6 – 12.0 °C, mean relative humidity observed in morning and afternoon were 86.5 % and 57.8 % respectively. The average wind speed range was 1.2 – 4.1 km/hr.

Weather forecast for next five days of Imphal- East (21st to 25th February, 2015)

There may be no rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 28.0 °C & minimum temp. 10.0 °C. Relative humidity may reach upto 97 % (max RH) & 34 % (min 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			
Pre-kharif Rice	Nursery raising		<ul style="list-style-type: none"> - 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. - Soaking and incubation of seeds may be started before sowing when minimum temperature reaches 10-12 °C.
Rabi Maize	Pre-flowering		- If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Rapeseed/ mustard	Siliqua formation to maturity to harvesting		<ul style="list-style-type: none"> - Irrigation is essential at this stage for sustaining favorable condition for seed formation. - Harvest the crops when the color of leaves, stem & siliquae is pale green to yellow, seeds are dark and produce rattling sound on shaking and 75% of the siliquae mature. It must be harvested during morning before drying of dew to avoid shattering of pods.
Pulses (Field pea/ Lentil)	Fruiting to maturity and harvesting		<ul style="list-style-type: none"> Retain well filled disease free mature pods for seeds. - Give light irrigation to keep soil moist for the crops in fruiting stage.
Storage (seed)			- 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			
Cucurbits	Transplanting		- Transplant already raised 4-leaf stage in open field. Light watering must be done during morning and afternoon hours.
Broad bean	Fruiting to maturity and harvesting		Neem based pesticide may be sprayed @ 5ml/ litre of water at 15 days interval to control aphids.
Chilli/ capsicum	Nursery		In chillies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g/ litre of water to control the fungal attack.
Onion	Bulb formation	Leaf minor	Spray Dichlorovos @ 1ml/ litre of water.
Bhindi	Sowing		<ul style="list-style-type: none"> 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 - Arka Anamika and Pusa Sawani



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Tree bean/ Lime/ Lemon/ Khasi Mandarin/ Banana	Land preparation and collection of planting material		- Preparation of pits or field for planting tree bean/ lime/ lemon/ khasi mandarin/ banana may be started. - Collect good planting material.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
		Ranikhet disease	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 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).
		Gumboro	Vaccinate using one shot IBD vaccine against Gumboro.
		Farm premises management	Keep the farm premises neat and clean using quality disinfectants.
Sheep/ Goat	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval.
		F.M.D.	- Vaccinate against F.M.D.
Pig	Above 3 months of age (as and when required)	Hog cholera	- Vaccinate against swine fever after the age of 3 months.
		Skin infection	Give Ivermectin (Indectin tab.) @ 200mg/ kg body weight once only.
		F.M.D.	- Vaccinate against F.M.D.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

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



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24th February, 2015

Imphal-West

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Weather forecast for next five days of Imphal- West (21st to 25th February, 2015)

There may be no rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 27.0 – 28.0 °C & minimum temp. 9.0 – 11.0 °C. Relative humidity may reach upto 98 % (max RH) & 34 % (min RH). The average wind speed may be 3-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Nursery raising		<ul style="list-style-type: none"> - 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. - Soaking and incubation of seeds may be started before sowing when minimum temperature reaches 10-12 °C.
Rabi Maize	Pre-flowering		<ul style="list-style-type: none"> - If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done.
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Rapeseed/ mustard	Siliqua formation to maturity to harvesting		<ul style="list-style-type: none"> - Irrigation is essential at this stage for sustaining favorable condition for seed formation. - Harvest the crops when the color of leaves, stem & siliquae is pale green to yellow, seeds are dark and produce rattling sound on shaking and 75% of the siliquae mature. It must be harvested during morning before drying of dew to avoid shattering of pods.
Pulses (Field pea/ Lentil)	Fruiting to maturity and harvesting		<ul style="list-style-type: none"> - Retain well filled disease free mature pods for seeds. - Give light irrigation to keep soil moist for the crops in fruiting stage.
Storage (seed)			<ul style="list-style-type: none"> - 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			
Cucurbits	Transplanting		<ul style="list-style-type: none"> - Transplant already raised 4-leaf stage in open field. Light watering must be done during morning and afternoon hours.
Broad bean	Fruiting to maturity and harvesting		<ul style="list-style-type: none"> - Neem based pesticide may be sprayed @ 5ml/ litre of water at 15 days interval to control aphids.
Chilli/ capsicum	Nursery		<ul style="list-style-type: none"> - In chillies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g/ litre of water to control the fungal attack.
Onion	Bulb formation	Leaf minor	<ul style="list-style-type: none"> - Spray Dichlorvos @ 1ml/ litre of water.
Bhindi	Sowing		<ul style="list-style-type: none"> - 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 - Arka Anamika and Pusa Sawani



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“Integrated Agromet Advisory Services”

Tree bean/ Lime/ Lemon/ Khasi Mandarin/ Banana	Land preparation and collection of planting material		<ul style="list-style-type: none"> - Preparation of pits or field for planting tree bean/ lime/ lemon/ khasi mandarin/ banana may be started. - Collect good planting material.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
		Ranikhet disease	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 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).
		Gumboro	Vaccinate using one shot IBD vaccine against Gumboro.
		Farm premises management	Keep the farm premises neat and clean using quality disinfectants.
Sheep/ Goat	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval.
		F.M.D.	- Vaccinate against F.M.D.
Pig	Above 3 months of age (as and when required)	Hog cholera	- Vaccinate against swine fever after the age of 3 months.
		Skin infection	Give Ivermectin (Indectin tab.) @ 200mg/ kg body weight once only.
		F.M.D.	- Vaccinate against F.M.D.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

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



**ICAR Research Complex for N.E.H. Region
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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

24th 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 25th February, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd February, 2015)

During past four days sky was mainly clear to partly cloudy but cloudy during morning hours of 22nd February. **15.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 23.2 – 26.5 °C, range of minimum temperature observed was 5.6 – 12.0 °C, mean relative humidity observed in morning and afternoon were 86.5 % and 57.8 % respectively. The average wind speed range was 1.2 – 4.1 km/hr.

Weather forecast for next five days of Senapati (21st to 25th February, 2015)

There may be no rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 26.0 - 27.0 °C & minimum temp. 7.0 - 12.0 °C. Relative humidity may reach upto 95 % (max RH) & 34 % (min RH). The average wind speed may be 2-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Nursery raising		<ul style="list-style-type: none"> - 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. - Soaking and incubation of seeds may be started before sowing when minimum temperature reaches 10-12 °C.
Rabi Maize	Pre-flowering		- If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Rapeseed/ mustard	Siliqua formation to maturity to harvesting		<ul style="list-style-type: none"> - Irrigation is essential at this stage for sustaining favorable condition for seed formation. - Harvest the crops when the color of leaves, stem & siliquae is pale green to yellow, seeds are dark and produce rattling sound on shaking and 75% of the siliquae mature. It must be harvested during morning before drying of dew to avoid shattering of pods.
Pulses (Field pea/ Lentil)	Fruiting to maturity and harvesting		Retain well filled disease free mature pods for seeds. - Give light irrigation to keep soil moist for the crops in fruiting stage.
Storage (seed)			- 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			
Cucurbits	Transplanting		- Transplant already raised 4-leaf stage in open field. Light watering must be done during morning and afternoon hours.
Broad bean	Fruiting to maturity and harvesting		Neem based pesticide may be sprayed @ 5ml/ litre of water at 15 days interval to control aphids.
Chilli/ capsicum	Nursery		In chillies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g/ litre of water to control the fungal attack.
Onion	Bulb formation	Leaf minor	Spray Dichlorovos @ 1ml/ litre of water.
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 - Arka Anamika and Pusa Sawani



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Tree bean/ Lime/ Lemon/ Khasi Mandarin/ Banana	Land preparation and collection of planting material		- Preparation of pits or field for planting tree bean/ lime/ lemon/ khasi mandarin/ banana may be started. - Collect good planting material.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
		Ranikhet disease	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 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).
		Gumboro	Vaccinate using one shot IBD vaccine against Gumboro.
		Farm premises management	Keep the farm premises neat and clean using quality disinfectants.
Sheep/ Goat	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval.
		F.M.D.	- Vaccinate against F.M.D.
Pig	Above 3 months of age (as and when required)	Hog cholera	- Vaccinate against swine fever after the age of 3 months.
		Skin infection	Give Ivermectin (Indectin tab.) @ 200mg/ kg body weight once only.
		F.M.D.	- Vaccinate against F.M.D.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

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MANIPUR BULLETIN

24th 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 25th February, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd February, 2015)

During past four days sky was mainly clear to partly cloudy but cloudy during morning hours of 22nd February. **15.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 23.2 – 26.5 °C, range of minimum temperature observed was 5.6 – 12.0 °C, mean relative humidity observed in morning and afternoon were 86.5 % and 57.8 % respectively. The average wind speed range was 1.2 – 4.1 km/hr.

Weather forecast for next five days of Tamenglong (21st to 25th February, 2015)

There may be no rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 27.0 - 28.0 °C & minimum temp. 8.0 - 11.0 °C. Relative humidity may reach upto 97 % (max RH) & 35 % (min RH). The average wind speed may be 2-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Nursery raising		<ul style="list-style-type: none"> - 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. - Soaking and incubation of seeds may be started before sowing when minimum temperature reaches 10-12 °C.
Rabi Maize	Pre-flowering		- If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Rapeseed/ mustard	Siliqua formation to maturity to harvesting		<ul style="list-style-type: none"> - Irrigation is essential at this stage for sustaining favorable condition for seed formation. - Harvest the crops when the color of leaves, stem & siliquae is pale green to yellow, seeds are dark and produce rattling sound on shaking and 75% of the siliquae mature. It must be harvested during morning before drying of dew to avoid shattering of pods.
Pulses (Field pea/ Lentil)	Fruiting to maturity and harvesting		<ul style="list-style-type: none"> Retain well filled disease free mature pods for seeds. - Give light irrigation to keep soil moist for the crops in fruiting stage.
Storage (seed)			- 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			
Cucurbits	Transplanting		- Transplant already raised 4-leaf stage in open field. Light watering must be done during morning and afternoon hours.
Broad bean	Fruiting to maturity and harvesting		Neem based pesticide may be sprayed @ 5ml/ litre of water at 15 days interval to control aphids.
Chilli/ capsicum	Nursery		In chillies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g/ litre of water to control the fungal attack.
Onion	Bulb formation	Leaf minor	Spray Dichlorovos @ 1ml/ litre of water.
Bhindi	Sowing		<ul style="list-style-type: none"> 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 - Arka Anamika and Pusa Sawani



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Tree bean/ Lime/ Lemon/ Khasi Mandarin/ Banana	Land preparation and collection of planting material		- Preparation of pits or field for planting tree bean/ lime/ lemon/ khasi mandarin/ banana may be started. - Collect good planting material.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
		Ranikhet disease	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 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).
		Gumboro	Vaccinate using one shot IBD vaccine against Gumboro.
		Farm premises management	Keep the farm premises neat and clean using quality disinfectants.
Sheep/ Goat	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval.
		F.M.D.	- Vaccinate against F.M.D.
Pig	Above 3 months of age (as and when required)	Hog cholera	- Vaccinate against swine fever after the age of 3 months.
		Skin infection	Give Ivermectin (Indectin tab.) @ 200mg/ kg body weight once only.
		F.M.D.	- Vaccinate against F.M.D.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

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



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MANIPUR BULLETIN

24th 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 25th February, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd February, 2015)

During past four days sky was mainly clear to partly cloudy but cloudy during morning hours of 22nd February. **15.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 23.2 – 26.5 °C, range of minimum temperature observed was 5.6 – 12.0 °C, mean relative humidity observed in morning and afternoon were 86.5 % and 57.8 % respectively. The average wind speed range was 1.2 – 4.1 km/hr.

Weather forecast for next five days of Thoubal (21st to 25th February, 2015)

There may be no rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 27.0 - 28.0 °C & minimum temp. 10.0 - 12.0 °C. Relative humidity may reach upto 93 % (max RH) & 33 % (min RH). The average wind speed may be 4-6 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Nursery raising		<ul style="list-style-type: none"> - 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. - Soaking and incubation of seeds may be started before sowing when minimum temperature reaches 10-12 °C.
Rabi Maize	Pre-flowering		<ul style="list-style-type: none"> - If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done.
		Stem borer	<ul style="list-style-type: none"> - To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Rapeseed/ mustard	Siliqua formation to maturity to harvesting		<ul style="list-style-type: none"> - Irrigation is essential at this stage for sustaining favorable condition for seed formation. - Harvest the crops when the color of leaves, stem & siliquae is pale green to yellow, seeds are dark and produce rattling sound on shaking and 75% of the siliquae mature. It must be harvested during morning before drying of dew to avoid shattering of pods.
Pulses (Field pea/ Lentil)	Fruiting to maturity and harvesting		<ul style="list-style-type: none"> - Retain well filled disease free mature pods for seeds. - Give light irrigation to keep soil moist for the crops in fruiting stage.
Storage (seed)			<ul style="list-style-type: none"> - 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			
Cucurbits	Transplanting		<ul style="list-style-type: none"> - Transplant already raised 4-leaf stage in open field. Light watering must be done during morning and afternoon hours.
Broad bean	Fruiting to maturity and harvesting		<ul style="list-style-type: none"> - Neem based pesticide may be sprayed @ 5ml/ litre of water at 15 days interval to control aphids.
Chilli/ capsicum	Nursery		<ul style="list-style-type: none"> - In chillies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g/ litre of water to control the fungal attack.
Onion	Bulb formation	Leaf minor	<ul style="list-style-type: none"> - Spray Dichlorvos @ 1ml/ litre of water.
Bhindi	Sowing		<ul style="list-style-type: none"> - 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 - Arka Anamika and Pusa Sawani



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

Tree bean/ Lime/ Lemon/ Khasi Mandarin/ Banana	Land preparation and collection of planting material		- Preparation of pits or field for planting tree bean/ lime/ lemon/ khasi mandarin/ banana may be started. - Collect good planting material.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
		Ranikhet disease	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 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).
		Gumboro	Vaccinate using one shot IBD vaccine against Gumboro.
		Farm premises management	Keep the farm premises neat and clean using quality disinfectants.
Sheep/ Goat	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval.
		F.M.D.	- Vaccinate against F.M.D.
Pig	Above 3 months of age (as and when required)	Hog cholera	- Vaccinate against swine fever after the age of 3 months.
		Skin infection	Give Ivermectin (Indectin tab.) @ 200mg/ kg body weight once only.
		F.M.D.	- Vaccinate against F.M.D.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

24th 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 25th February, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd February, 2015)

During past four days sky was mainly clear to partly cloudy but cloudy during morning hours of 22nd February. **15.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 23.2 – 26.5 °C, range of minimum temperature observed was 5.6 – 12.0 °C, mean relative humidity observed in morning and afternoon were 86.5 % and 57.8 % respectively. The average wind speed range was 1.2 – 4.1 km/hr.

Weather forecast for next five days of Ukhrul (21st to 25th February, 2015)

There may be no rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 26.0 - 27.0 °C & minimum temp. 8.0 - 12.0 °C. Relative humidity may reach upto 84 % (max RH) & 32 % (min RH). The average wind speed may be 3-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Nursery raising		<ul style="list-style-type: none"> - 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. - Soaking and incubation of seeds may be started before sowing when minimum temperature reaches 10-12 °C.
Rabi Maize	Pre-flowering		- If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
Rapeseed/ mustard	Siliqua formation to maturity to harvesting		<ul style="list-style-type: none"> - Irrigation is essential at this stage for sustaining favorable condition for seed formation. - Harvest the crops when the color of leaves, stem & siliquae is pale green to yellow, seeds are dark and produce rattling sound on shaking and 75% of the siliquae mature. It must be harvested during morning before drying of dew to avoid shattering of pods.
Pulses (Field pea/ Lentil)	Fruiting to maturity and harvesting		<ul style="list-style-type: none"> Retain well filled disease free mature pods for seeds. - Give light irrigation to keep soil moist for the crops in fruiting stage.
Storage (seed)			- 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			
Cucurbits	Transplanting		- Transplant already raised 4-leaf stage in open field. Light watering must be done during morning and afternoon hours.
Broad bean	Fruiting to maturity and harvesting		Neem based pesticide may be sprayed @ 5ml/ litre of water at 15 days interval to control aphids.
Chilli/ capsicum	Nursery		In chillies and capsicum, spray Carbendazim + Mancozeb (Sixer) @ 2 g/ litre of water to control the fungal attack.
Onion	Bulb formation	Leaf minor	Spray Dichlorovos @ 1ml/ litre of water.
Bhindi	Sowing		<ul style="list-style-type: none"> 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 - Arka Anamika and Pusa Sawani



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



“Integrated Agromet Advisory Services”

Tree bean/ Lime/ Lemon/ Khasi Mandarin/ Banana	Land preparation and collection of planting material		- Preparation of pits or field for planting tree bean/ lime/ lemon/ khasi mandarin/ banana may be started. - Collect good planting material.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
		Ranikhet disease	Birds must be vaccinated as per recommended schedule mentioned below as the probability of occurrence of the disease is high during March- April months. 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).
		Gumboro	Vaccinate using one shot IBD vaccine against Gumboro.
		Farm premises management	Keep the farm premises neat and clean using quality disinfectants.
Sheep/ Goat	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval.
		F.M.D.	- Vaccinate against F.M.D.
Pig	Above 3 months of age (as and when required)	Hog cholera	- Vaccinate against swine fever after the age of 3 months.
		Skin infection	Give Ivermectin (Indectin tab.) @ 200mg/ kg body weight once only.
		F.M.D.	- Vaccinate against F.M.D.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

(I. Meghachandra Singh)
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