



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

3rd October, 2014

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th to 8th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th September to 2nd October, 2014)

During past four days sky was mainly cloudy to cloudy upto 27th then mainly clear to partly cloudy on 28th & 29th Sept. **8.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 25.8 – 28.7 °C, range of minimum temperature observed was 18.6 – 20.4 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 77.8 % respectively. The average wind speed range was 1.4 – 2.8 km/hr.

Weather forecast for next five days of Churachandpur (4th to 8th October, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 27.0 – 29.0 °C & minimum temp. 17.0 – 19.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 60 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Dough stage to grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development. - Regular monitoring of pest and disease infestation is essential.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptomycine @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
	Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.	
Soybean	Pod formation to maturity	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Pod formation		- Hand weeding should be done.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Onion	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - Also check that the new sprouts are not damaged.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
Capsicum	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.
Chilli	Post-harvesting		Mature ones may be harvested for drying. While drying alternate wetting and thawing should be done. After drying, dried Prickly winged leaves (Mukthruhi) may be sprayed to protect the chilli from insect pest and it must be checked regularly.



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Ginger/ Turmeric	Rhizome initiation stage		<ul style="list-style-type: none"> - Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. - Mulching with leaves of Lantana camera is also useful for controlling shoot borer. - Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. - Apply Trichoderma along with bio-fertilizer (Azospirillum, Azotobacter and PSB, etc.).
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
		leaf blotch and leaf spot	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<p>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		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 age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		<ul style="list-style-type: none"> - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% 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. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
Paddy cum fish culture	Water management		<ul style="list-style-type: none"> - Maintained 1.0 m water depth of the trenches in paddy field. - Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

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



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Imphal-East

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Significant past weather for the preceding bi-weekly of Imphal - West (30th September to 2nd October, 2014)

During past four days sky was mainly cloudy to cloudy upto 27th then mainly clear to partly cloudy on 28th & 29th Sept. **8.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 25.8 – 28.7 °C, range of minimum temperature observed was 18.6 – 20.4 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 77.8 % respectively. The average wind speed range was 1.4 – 2.8 km/hr.

Weather forecast for next five days of Imphal-East (4th to 8th October, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 18.0 – 19.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 53 % (minimum 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			
Kharif Rice	Dough stage to grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development. - Regular monitoring of pest and disease infestation is essential.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptomycine @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
	Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.	
Soybean	Pod formation to maturity	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Pod formation		- Hand weeding should be done.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Onion	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - Also check that the new sprouts are not damaged.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
Capsicum	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.
Chilli	Post-harvesting		Mature ones may be harvested for drying. While drying alternate wetting and thawing should be done. After drying, dried Prickly winged leaves (Mukthruhi) may be sprayed to protect the chilli from insect pest and it must be checked regularly.



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		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
		leaf blotch and leaf spot	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<p>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		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 age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
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Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
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		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 age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		<ul style="list-style-type: none"> - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% 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. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
Paddy cum fish culture	Water management		<ul style="list-style-type: none"> - Maintained 1.0 m water depth of the trenches in paddy field. - Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

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



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

3rd October, 2014

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 4th to 8th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th September to 2nd October, 2014)

During past four days sky was mainly cloudy to cloudy upto 27th then mainly clear to partly cloudy on 28th & 29th Sept. **8.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 25.8 – 28.7 °C, range of minimum temperature observed was 18.6 – 20.4 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 77.8 % respectively. The average wind speed range was 1.4 – 2.8 km/hr.

Weather forecast for next five days of Senapati (4th to 8th October, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 25.0 – 28.0 °C & minimum temp. 15.0 – 17.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 46 % (minimum 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			
Kharif Rice	Dough stage to grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development. - Regular monitoring of pest and disease infestation is essential.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptomycine @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
	Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.	
Soybean	Pod formation to maturity	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Pod formation		- Hand weeding should be done.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Onion	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - Also check that the new sprouts are not damaged.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
Capsicum	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.
Chilli	Post-harvesting		Mature ones may be harvested for drying. While drying alternate wetting and thawing should be done. After drying, dried Prickly winged leaves (Mukthruhi) may be sprayed to protect the chilli from insect pest and it must be checked regularly.



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Ginger/ Turmeric	Rhizome initiation stage		<ul style="list-style-type: none"> - Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. - Mulching with leaves of Lantana camera is also useful for controlling shoot borer. - Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. - Apply Trichoderma along with bio-fertilizer (Azospirillum, Azotobacter and PSB, etc.).
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
		leaf blotch and leaf spot	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<p>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		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 age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		<ul style="list-style-type: none"> - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% 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. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
Paddy cum fish culture	Water management		<ul style="list-style-type: none"> - Maintained 1.0 m water depth of the trenches in paddy field. - Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

(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

3rd October, 2014

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 4th to 8th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th September to 2nd October, 2014)

During past four days sky was mainly cloudy to cloudy upto 27th then mainly clear to partly cloudy on 28th & 29th Sept. **8.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 25.8 – 28.7 °C, range of minimum temperature observed was 18.6 – 20.4 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 77.8 % respectively. The average wind speed range was 1.4 – 2.8 km/hr.

Weather forecast for next five days of Tamenglong (4th to 8th October, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 50 % (minimum RH). The average wind speed may be 2-5 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Dough stage to grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development. - Regular monitoring of pest and disease infestation is essential.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptomycine @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
	Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.	
Soybean	Pod formation to maturity	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Pod formation		- Hand weeding should be done.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Onion	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - Also check that the new sprouts are not damaged.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
Capsicum	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.
Chilli	Post-harvesting		Mature ones may be harvested for drying. While drying alternate wetting and thawing should be done. After drying, dried Prickly winged leaves (Mukthruhi) may be sprayed to protect the chilli from insect pest and it must be checked regularly.



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Ginger/ Turmeric	Rhizome initiation stage		<ul style="list-style-type: none"> - Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. - Mulching with leaves of Lantana camera is also useful for controlling shoot borer. - Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. - Apply Trichoderma along with bio-fertilizer (Azospirillum, Azotobacter and PSB, etc.).
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
		leaf blotch and leaf spot	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<p>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		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 age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		<ul style="list-style-type: none"> - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% 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. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
Paddy cum fish culture	Water management		<ul style="list-style-type: none"> - Maintained 1.0 m water depth of the trenches in paddy field. - Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

(I. Meghachandra Singh)
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**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

3rd October, 2014

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 4th to 8th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th September to 2nd October, 2014)

During past four days sky was mainly cloudy to cloudy upto 27th then mainly clear to partly cloudy on 28th & 29th Sept. **8.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 25.8 – 28.7 °C, range of minimum temperature observed was 18.6 – 20.4 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 77.8 % respectively. The average wind speed range was 1.4 – 2.8 km/hr.

Weather forecast for next five days of Thoubal (4th to 8th October, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 28.0 – 30.0 °C & minimum temp. 18.0 – 19.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 65 % (minimum RH). The average wind speed may be 2-6 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Dough stage to grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development. - Regular monitoring of pest and disease infestation is essential.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptomycine @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
	Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.	
Soybean	Pod formation to maturity	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Pod formation		- Hand weeding should be done.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Onion	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - Also check that the new sprouts are not damaged.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
Capsicum	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.
Chilli	Post-harvesting		Mature ones may be harvested for drying. While drying alternate wetting and thawing should be done. After drying, dried Prickly winged leaves (Mukthruhi) may be sprayed to protect the chilli from insect pest and it must be checked regularly.



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



“Integrated Agromet Advisory Services”

Ginger/ Turmeric	Rhizome initiation stage		<ul style="list-style-type: none"> - Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. - Mulching with leaves of Lantana camera is also useful for controlling shoot borer. - Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. - Apply Trichoderma along with bio-fertilizer (Azospirillum, Azotobacter and PSB, etc.).
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
		leaf blotch and leaf spot	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<p>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		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 age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		<ul style="list-style-type: none"> - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% 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. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
Paddy cum fish culture	Water management		<ul style="list-style-type: none"> - Maintained 1.0 m water depth of the trenches in paddy field. - Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

(I. Meghachandra Singh)
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**ICAR Research Complex for N.E.H. Region
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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

3rd October, 2014

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 4th to 8th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th September to 2nd October, 2014)

During past four days sky was mainly cloudy to cloudy upto 27th then mainly clear to partly cloudy on 28th & 29th Sept. **8.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 25.8 – 28.7 °C, range of minimum temperature observed was 18.6 – 20.4 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 77.8 % respectively. The average wind speed range was 1.4 – 2.8 km/hr.

Weather forecast for next five days of Ukhrul (4th to 8th October, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 25.0 – 27.0 °C & minimum temp. 14.0 – 16.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 57 % (minimum RH). The average wind speed may be 4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Dough stage to grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development. - Regular monitoring of pest and disease infestation is essential.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptomycine @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
	Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.	
Soybean	Pod formation to maturity	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Pod formation		- Hand weeding should be done.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Onion	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - Also check that the new sprouts are not damaged.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
Capsicum	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.
Chilli	Post-harvesting		Mature ones may be harvested for drying. While drying alternate wetting and thawing should be done. After drying, dried Prickly winged leaves (Mukthruhi) may be sprayed to protect the chilli from insect pest and it must be checked regularly.



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



“Integrated Agromet Advisory Services”

Ginger/ Turmeric	Rhizome initiation stage		<ul style="list-style-type: none"> - Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. - Mulching with leaves of Lantana camera is also useful for controlling shoot borer. - Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. - Apply Trichoderma along with bio-fertilizer (Azospirillum, Azotobacter and PSB, etc.).
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
		leaf blotch and leaf spot	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<p>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		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 age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		<ul style="list-style-type: none"> - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% 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. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
Paddy cum fish culture	Water management		<ul style="list-style-type: none"> - Maintained 1.0 m water depth of the trenches in paddy field. - Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

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



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

3rd October, 2014

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 4th to 8th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th September to 2nd October, 2014)

During past four days sky was mainly cloudy to cloudy upto 27th then mainly clear to partly cloudy on 28th & 29th Sept. **8.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 25.8 – 28.7 °C, range of minimum temperature observed was 18.6 – 20.4 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 77.8 % respectively. The average wind speed range was 1.4 – 2.8 km/hr.

Weather forecast for next five days of Bishnupur (4th to 8th October, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 29.0 – 30.0 °C & minimum temp. 18.0 – 19.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 59 % (minimum 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			
Kharif Rice	Dough stage to grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development. - Regular monitoring of pest and disease infestation is essential.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptomycine @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
	Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.	
Soybean	Pod formation to maturity	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Pod formation		- Hand weeding should be done.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Onion	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - Also check that the new sprouts are not damaged.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
Capsicum	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.
Chilli	Post-harvesting		Mature ones may be harvested for drying. While drying alternate wetting and thawing should be done. After drying, dried Prickly winged leaves (Mukthruhi) may be sprayed to protect the chilli from insect pest and it must be checked regularly.



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“Integrated Agromet Advisory Services”

Ginger/ Turmeric	Rhizome initiation stage		<ul style="list-style-type: none"> - Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. - Mulching with leaves of Lantana camera is also useful for controlling shoot borer. - Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. - Apply Trichoderma along with bio-fertilizer (Azospirillum, Azotobacter and PSB, etc.).
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
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