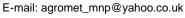
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 15th September, 2015

Imphal-West

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - West
Imphal - West (11 th to 14 th September, 2015)	(16 th to 20 th September, 2015)
During last four days sky was mainly clear to partly cloudy	There may be light rain during next five days. Sky will remain
but mainly cloudy during afternoon hours of 14 th Sept. No	mainly clear to partly cloudy with maximum temp. of 28.0 -
rainfall was recorded during last four days. Maximum	31.0 °C & minimum temp. 20.0 – 22.0 °C. Relative humidity
temperature range observed was 29.4 - 31.0 °C, range of	may reach upto 100 % (max RH) & 51 % (min RH). The
minimum temperature observed was 20.9 - 22.6 °C, mean	average wind speed may be 2-4 km/ hr during next five days.
relative humidity observed in morning and afternoon were	The Wind direction may be westerly upto Wednesday and
85.5 % and 71.75 % respectively. The average wind speed	north-easterly to easterly upto Sunday during next five days.
range was $2.4 - 2.9$ km/hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		-	
Kharif Rice	Panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. Maintain water depth of 5cm in the rice field.
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
		Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea must be completed when there is enough moisture in the soil. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
Rabi vegetables	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.



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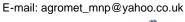


"Gramin Krishi Mausam Seva"

~	development		
Ginger / Turmerie	c Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Prepara	ation	 Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. Select fertile area with sunshine and free from water logging. Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball.
			Cabbage: White flash (medium size) and Swetha (big size).
Animal Sciences Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age	Contingency plan and	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days.
Turkey/ Duck)	groups	management	 Give ENROY hq. @ 2hi/ 10 kg body weight for 5 days. Give green grasses sufficiently & mix with ground maize/ rice bran. Add mineral mixture & vitamins either in feed or water or both. At least use turpauline sheet for shelter of sites. Add water sanitizer in drinking water/ or add potash. Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
	months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
		Deworning	- Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age	Management	- Keep sheds dry.
8	groups	Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
age (as and when required)		Ectoparasite infestations	 Diclorvo/ Organophosphates @ 60ml/ 20 lit of water. Shift the animals in higher elevated site. Give Amoxyline/ Salbactum or any antibiotic for 5 days. Add mineral mixture & vitamins either in feed or water or both. Add water sanitizer in drinking water/ or add potash.
Fishery:		1	
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture Nurseries/ grovout		Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha everymonth. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	 For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting
-	Pig		About 30-40 two months old pigs may be kept for fertilization of the one
In integrated Fish Farming	Pig		 About 50-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency. 200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1

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"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 15th September, 2015

Senapati

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati
Imphal - West (11 th to 14 th September, 2015)	(16 th to 20 th September, 2015)
During last four days sky was mainly clear to partly cloudy	There may be light rain during next five days. Sky will remain
but mainly cloudy during afternoon hours of 14 th Sept. No	mainly clear to partly cloudy with maximum temp. of 27.0 -
rainfall was recorded during last four days. Maximum	30.0 °C & minimum temp. $18.0 - 20.0$ °C. Relative humidity
temperature range observed was 29.4 - 31.0 °C, range of	may reach upto 99 % (max RH) & 50 % (min RH). The
minimum temperature observed was 20.9 - 22.6 °C, mean	average wind speed may be 2-4 km/ hr during next five days.
relative humidity observed in morning and afternoon were	The Wind direction may be westerly upto Wednesday and
85.5 % and 71.75 % respectively. The average wind speed	north-easterly to easterly upto Sunday during next five days.
range was 2.4 – 2.9 km/hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		1	
Kharif Rice	Panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. Maintain water depth of 5cm in the rice field.
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
		Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops	ł		
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea must be completed when there is enough moisture in the soil. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
Rabi vegetables	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.



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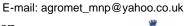


"Gramin Krishi Mausam Seva"

Ginger / Turmeri	c Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Prepara	ution	 Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. Select fertile area with sunshine and free from water logging. Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball. Cabbage: White flash (medium size) and Swetha (big size).
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	 - Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash. Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
	months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
			- Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age	Management	- Keep sheds dry.
8	groups	Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming Ectoparasite infestations	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole). Diclorvo/ Organophosphates @ 60ml/ 20 lit of water. - Shift the animals in higher elevated site. - Give Amoxyline/ Salbactum or any antibiotic for 5 days.
			 Add mineral mixture & vitamins either in feed or water or both. Add water sanitizer in drinking water/ or add potash.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture Nurseries/ grow- out		Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha everymonth. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day.Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	 For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

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





"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 15th September, 2015

Tamenglong

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (11 th to 14 th September, 2015)	(16 th to 20 th September, 2015)
During last four days sky was mainly clear to partly cloudy	There may be light rain during next five days. Sky will remain
but mainly cloudy during afternoon hours of 14 th Sept. No	mainly clear to partly cloudy with maximum temp. of 31.0 -
rainfall was recorded during last four days. Maximum	33.0 °C & minimum temp. 20.0 – 22.0 °C. Relative humidity
temperature range observed was 29.4 - 31.0 °C, range of	may reach upto 100 % (max RH) & 57 % (min RH). The
minimum temperature observed was 20.9 - 22.6 °C, mean	average wind speed may be 2 km/ hr during next five days. The
relative humidity observed in morning and afternoon were	Wind direction may be westerly upto Wednesday and north-
85.5 % and 71.75 % respectively. The average wind speed	easterly to easterly upto Sunday during next five days.
range was 2.4 – 2.9 km/hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	ł	-	
Kharif Rice	Panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. Maintain water depth of 5cm in the rice field.
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
		Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea must be completed when there is enough moisture in the soil. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
Rabi vegetables	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.



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

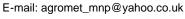


"Gramin Krishi Mausam Seva"

~	development		
Ginger / Turmerie	c Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Prepara	ation	 Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. Select fertile area with sunshine and free from water logging. Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball. Cabbage: White flash (medium size) and Swetha (big size).
Animal Sciences			
Name of the animal	8	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	 Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. Give green grasses sufficiently & mix with ground maize/ rice bran. Add mineral mixture & vitamins either in feed or water or both. At least use turpauline sheet for shelter of sites. Add water sanitizer in drinking water/ or add potash.
Sheep/ Goat	Above 3	XI	Start keeping new batch chicks in case of layer variety.
Sneep/ Goat	months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
			- Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age	Management	- Keep sheds dry.
	groups	Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
age (as and when required)		Ectoparasite infestations	 Diclorvo/ Organophosphates @ 60ml/ 20 lit of water. Shift the animals in higher elevated site. Give Amoxyline/ Salbactum or any antibiotic for 5 days. Add mineral mixture & vitamins either in feed or water or both. Add water sanitizer in drinking water/ or add potash.
Fishery:	I		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture Nurseries/ grow- out		Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha everymonth. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day.Provide good feed having 30% crude protein fortified with vitamins and mineral.
In integrated Fish Farming	Pig	Fish	 For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 15th September, 2015

Thoubal

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal
Imphal - West (11 th to 14 th September, 2015)	(16 th to 20 th September, 2015)
During last four days sky was mainly clear to partly cloudy	There may be light rain during next five days. Sky will remain
but mainly cloudy during afternoon hours of 14 th Sept. No	mainly clear to partly cloudy with maximum temp. of 29.0 -
rainfall was recorded during last four days. Maximum	31.0 °C & minimum temp. $21.0 - 23.0$ °C. Relative humidity
temperature range observed was 29.4 - 31.0 °C, range of	may reach upto 99 % (max RH) & 56 % (min RH). The
minimum temperature observed was 20.9 - 22.6 °C, mean	average wind speed may be 2-4 km/ hr during next five days.
relative humidity observed in morning and afternoon were	The Wind direction may be westerly upto Wednesday and
85.5 % and 71.75 % respectively. The average wind speed	north-easterly to easterly upto Sunday during next five days.
range was 2.4 – 2.9 km/hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	ł	-	
Kharif Rice	Panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. Maintain water depth of 5cm in the rice field.
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
		Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea must be completed when there is enough moisture in the soil. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
Rabi vegetables	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.



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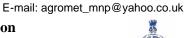


"Gramin Krishi Mausam Seva"

Ginger / Turmeri	c Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Prepara	ntion	 Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. Select fertile area with sunshine and free from water logging. Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball. Cabbage: White flash (medium size) and Swetha (big size).
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	 - Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash. Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
	months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
			- Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age	Management	- Keep sheds dry.
8	groups	Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming Ectoparasite infestations	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole). Diclorvo/ Organophosphates @ 60ml/ 20 lit of water. - Shift the animals in higher elevated site. - Give Amoxyline/ Salbactum or any antibiotic for 5 days.
			 Add mineral mixture & vitamins either in feed or water or both. Add water sanitizer in drinking water/ or add potash.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture Nurseries/ grow- out		Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha everymonth. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	 For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

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





"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 15th September, 2015

Ukhrul

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (11 th to 14 th September, 2015)	(16 th to 20 th September, 2015)
During last four days sky was mainly clear to partly cloudy	There may be light rain during next five days. Sky will remain
but mainly cloudy during afternoon hours of 14 th Sept. No	mainly clear to partly cloudy with maximum temp. of 26.0 -
rainfall was recorded during last four days. Maximum	29.0 °C & minimum temp. 17.0 – 19.0 °C. Relative humidity
temperature range observed was 29.4 - 31.0 °C, range of	may reach upto 98 % (max RH) & 59 % (min RH). The
minimum temperature observed was 20.9 - 22.6 °C, mean	average wind speed may be 2-3 km/ hr during next five days.
relative humidity observed in morning and afternoon were	The Wind direction may be westerly upto Wednesday and
85.5 % and 71.75 % respectively. The average wind speed	north-easterly to easterly upto Sunday during next five days.
range was 2.4 – 2.9 km/hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		1	
	Panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. Maintain water depth of 5cm in the rice field.
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
	1 66 6	Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea must be completed when there is enough moisture in the soil. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
Rabi vegetables	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.



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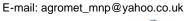


"Gramin Krishi Mausam Seva"

Ginger / Turmerio	c Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Prepara	ution	 Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. Select fertile area with sunshine and free from water logging. Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball. Cabbage: White flash (medium size) and Swetha (big size).
<i>Animal Sciences</i> Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	 - Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash. Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
	months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
			- Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age	Management	- Keep sheds dry.
0	groups	Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming Ectoparasite infestations	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole). Diclorvo/ Organophosphates @ 60ml/ 20 lit of water. - Shift the animals in higher elevated site. - Give Amoxyline/ Salbactum or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both.
			- Add mineral mixture & vitamins enter in feed of water of both. - Add water sanitizer in drinking water/ or add potash.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture Nurseries/ grow- out		Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha everymonth. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day.Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	 For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting
	D'.		About 30-40 two months old pigs may be kept for fertilization of the one
In integrated Fish Farming	Pig Duck		 ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency. 200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1

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"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 15th September, 2015

Bishnupur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur
Imphal - West (11 th to 14 th September, 2015)	(16 th to 20 th September, 2015)
During last four days sky was mainly clear to partly cloudy	There may be light rain during next five days. Sky will remain
but mainly cloudy during afternoon hours of 14 th Sept. No	mainly clear to partly cloudy with maximum temp. of 29.0 -
rainfall was recorded during last four days. Maximum	31.0 °C & minimum temp. 20.0 – 22.0 °C. Relative humidity
temperature range observed was 29.4 - 31.0 °C, range of	may reach upto 100 % (max RH) & 59 % (min RH). The
minimum temperature observed was 20.9 - 22.6 °C, mean	average wind speed may be 2 km/ hr during next five days. The
relative humidity observed in morning and afternoon were	Wind direction may be westerly upto Wednesday and north-
85.5 % and 71.75 % respectively. The average wind speed	easterly to easterly upto Sunday during next five days.
range was 2.4 – 2.9 km/hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	- L	_1	
Kharif Rice Panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. Maintain water depth of 5cm in the rice field.	
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
	1 00 0	Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops	- I	-	
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea must be completed when there is enough moisture in the soil. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
Rabi vegetables	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.



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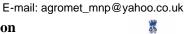


"Gramin Krishi Mausam Seva"

Ginger / Turmerio	c Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Prepara	ntion	 Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. Select fertile area with sunshine and free from water logging. Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball. Cabbage: White flash (medium size) and Swetha (big size).
<i>Animal Sciences</i> Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	 - Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash. Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
	months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
			- Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age	Management	- Keep sheds dry.
8	groups	Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun Above 3 months of age (as and when required)		Deworming Ectoparasite infestations	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole). Diclorvo/ Organophosphates @ 60ml/ 20 lit of water. - Shift the animals in higher elevated site. - Give Amoxyline/ Salbactum or any antibiotic for 5 days.
			 Add mineral mixture & vitamins either in feed or water or both. Add water sanitizer in drinking water/ or add potash.
Fishery:			- Add water samuzer in drinking water/ or add potasii.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture Nurseries/ grow- out		Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha everymonth. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day.Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	 For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1

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





"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 15th September, 2015

Chandel

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (11 th to 14 th September, 2015)	(16 th to 20 th September, 2015)
During last four days sky was mainly clear to partly cloudy	There may be light rain during next five days. Sky will remain
but mainly cloudy during afternoon hours of 14 th Sept. No	mainly clear to partly cloudy with maximum temp. of 30.0 -
rainfall was recorded during last four days. Maximum	32.0 °C & minimum temp. $19.0 - 21.0$ °C. Relative humidity
temperature range observed was 29.4 – 31.0 °C, range of	may reach upto 98 % (max RH) & 64 % (min RH). The
minimum temperature observed was 20.9 - 22.6 °C, mean	average wind speed may be 2-4 km/ hr during next five days.
relative humidity observed in morning and afternoon were	The Wind direction may be westerly upto Wednesday and
85.5 % and 71.75 % respectively. The average wind speed	north-easterly to easterly upto Sunday during next five days.
range was 2.4 – 2.9 km/hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		-	
Kharif Rice	Panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. Maintain water depth of 5cm in the rice field.
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
		Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea must be completed when there is enough moisture in the soil. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
Rabi vegetables	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.



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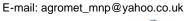


"Gramin Krishi Mausam Seva"

~	development		
Ginger / Turmeri	c Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Prepara	ition	 Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. Select fertile area with sunshine and free from water logging. Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball.
			Cabbage: White flash (medium size) and Swetha (big size).
Animal Sciences Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age	Contingency plan and	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days.
Turkey/ Duck)	groups	management	 Give Erklox hq. @ 2hi/ 10 kg body weight for 5 days. Give green grasses sufficiently & mix with ground maize/ rice bran. Add mineral mixture & vitamins either in feed or water or both. At least use turpauline sheet for shelter of sites. Add water sanitizer in drinking water/ or add potash. Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
P	months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
			- Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age	Management	- Keep sheds dry.
8	groups	Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Cattle / Buffalo/ Above 3		Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
age (as and when required)	Ectoparasite infestations	 Diclorvo/ Organophosphates @ 60ml/ 20 lit of water. Shift the animals in higher elevated site. Give Amoxyline/ Salbactum or any antibiotic for 5 days. Add mineral mixture & vitamins either in feed or water or both. Add water sanitizer in drinking water/ or add potash. 	
Fishery:	I		
Type of Farming	Stage	Management	Agro-metrological advisories
Type of Farming Stage Carp culture Nurseries/ grow-out In integrated Fish Farming Pig		Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha everymonth. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	 For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the
			root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1
			ha pond.

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





"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 15th September, 2015

Churachandpur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur
Imphal - West (11 th to 14 th September, 2015)	(16 th to 20 th September, 2015)
During last four days sky was mainly clear to partly cloudy	There may be light rain during next five days. Sky will remain
but mainly cloudy during afternoon hours of 14 th Sept. No	mainly clear to partly cloudy with maximum temp. of 30.0 -
rainfall was recorded during last four days. Maximum	32.0 °C & minimum temp. 19.0 – 21.0 °C. Relative humidity
temperature range observed was 29.4 - 31.0 °C, range of	may reach upto 99 % (max RH) & 69 % (min RH). The
minimum temperature observed was 20.9 - 22.6 °C, mean	average wind speed may be 2 km/ hr during next five days. The
relative humidity observed in morning and afternoon were	Wind direction may be westerly upto Wednesday and north-
85.5 % and 71.75 % respectively. The average wind speed	easterly to easterly upto Sunday during next five days.
range was 2.4 – 2.9 km/hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	ł	-	
Kharif Rice	Panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. Maintain water depth of 5cm in the rice field.
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
		Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea must be completed when there is enough moisture in the soil. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
Rabi vegetables	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.



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

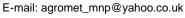


"Gramin Krishi Mausam Seva"

Ginger / Turmerio	c Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Prepara	ution	 Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. Select fertile area with sunshine and free from water logging. Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball. Cabbage: White flash (medium size) and Swetha (big size).
<i>Animal Sciences</i> Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	 - Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash. Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
	months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
			- Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age	Management	- Keep sheds dry.
	groups	Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming Ectoparasite infestations	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole). Diclorvo/ Organophosphates @ 60ml/ 20 lit of water. - Shift the animals in higher elevated site. - Give Amoxyline/ Salbactum or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both.
			- Add water sanitizer in drinking water/ or add potash.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture Nurseries/ grow- out		Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha everymonth. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	 For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1

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





"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 15th September, 2015

Imphal-East

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - East
Imphal - West (11 th to 14 th September, 2015)	(16 th to 20 th September, 2015)
During last four days sky was mainly clear to partly cloudy	There may be light rain during next five days. Sky will remain
but mainly cloudy during afternoon hours of 14 th Sept. No	mainly clear to partly cloudy with maximum temp. of 28.0 -
rainfall was recorded during last four days. Maximum	30.0 °C & minimum temp. 21.0 – 22.0 °C. Relative humidity
temperature range observed was 29.4 - 31.0 °C, range of	may reach upto 100 % (max RH) & 49 % (min RH). The
minimum temperature observed was 20.9 - 22.6 °C, mean	average wind speed may be 2-4 km/ hr during next five days.
relative humidity observed in morning and afternoon were	The Wind direction may be westerly upto Wednesday and
85.5 % and 71.75 % respectively. The average wind speed	north-easterly to easterly upto Sunday during next five days.
range was 2.4 – 2.9 km/hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
	Panicle initiation	Sucking insects	 Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. Maintain water depth of 5cm in the rice field. Imidachloprid @ 4-7 ml/ 15 litres of water.
		Sheath rot Stem borer	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of
		Stem rot	water (at least three pumps per sangam). Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
		Rust	- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops	ł		
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea must be completed when there is enough moisture in the soil. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
Rabi vegetables	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.



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



"Gramin Krishi Mausam Seva"

	development		
Ginger / Turmeri	c Rhizome	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @
	development		2g/lit water.
Cabbage/ Nursery Preparat		ation	- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale
Cauliflower/			nursery raising.
Tomato			- For transplanting 1 sangam area 75g seed for hybrid variety can be sown
			in 12sq.m area.
			- Select fertile area with sunshine and free from water logging.
			- Protective measures must be taken up against damping off in seedlings.
			Temporary rain shelter structures may be used to protect against rainfall.
			Recommended varieties: Cabbage: Rareball.
			Cabbage: White flash (medium size) and Swetha (big size).
Animal Sciences			Cabbage. white mash (meetuni size) and Swetha (big size).
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age	Contingency plan and	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days.
Turkey/ Duck)	groups	management	- Give green grasses sufficiently & mix with ground maize/ rice bran.
		C C	- Add mineral mixture & vitamins either in feed or water or both.
Sheep/ Goat			- At least use turpauline sheet for shelter of sites.
			- Add water sanitizer in drinking water/ or add potash.
			Start keeping new batch chicks in case of layer variety.
	Above 3	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
	months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
			- Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age	Management	- Keep sheds dry.
8	groups	Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/	Above 3	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @
Mithun	months of	2	1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
	age (as and	Ectoparasite	Diclorvo/ Organophosphates @ 60ml/ 20 lit of water.
	when	infestations	
	required)		- Shift the animals in higher elevated site.
			- Give Amoxyline/ Salbactum or any antibiotic for 5 days.
			- Add mineral mixture & vitamins either in feed or water or both.
T: 1			- Add water sanitizer in drinking water/ or add potash.
Fishery:	1		
Type of Farming	Stage	Management	Agro-metrological advisories
	Nurseries/ grow-	Pond and water	Maintain minimum depth of $1.0 - 1.5$ m and pH at $7.0 - 7.5$. Apply Lime
	out		@ 25-30kg/ ha everymonth.Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day.
		reeu	Provide good feed having 30% crude protein fortified with vitamins and
			mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one
			hectare pond.
			- Stocking ratio may be maintained at 40% of surface feeder, 30% column
			feeder and 30% bottom feeder.
			- Sampling of fish for growth, disease should be done regularly by netting.
Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one
			ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green
			grasses or animal folder is also provided. Grass with interlocked soil in the
			root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1
			ha pond.