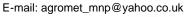
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





### "Gramin Krishi Mausam Seva"

### MANIPUR BULLETIN 11<sup>th</sup> September, 2015

### Bishnupur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur
Imphal - West (8 <sup>th</sup> to 10 <sup>th</sup> September, 2015)	(12 <sup>th</sup> to 16 <sup>th</sup> September, 2015)
During last three days sky was mainly clear to mainly cloudy.	There may be light rain from Thursday. Sky will remain mainly
No rainfall was recorded during last four days. Maximum	clear to partly cloudy with maximum temp. of $30.0 - 32.0$ °C &
temperature range observed was 27.8 - 31.0 °C, range of	minimum temp. 22.0 – 23.0 °C. Relative humidity may reach
minimum temperature observed was 22.5 - 22.8 °C, mean	upto 99 % (max RH) & 67 % (min RH). The average wind
relative humidity observed in morning and afternoon were	speed may be 2 km/ hr during next five days. The Wind
87.0 % and 75.33 % respectively. The average wind speed	direction may be westerly upto Saturday and north-easterly to
range was 2.8 – 3.6 km/hr.	easterly upto Wednesday during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative to panicle initiation	Sucking insects Stem borer	<ul> <li>- 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.</li> <li>Imidachloprid @ 4-7 ml/ 15 litres of water.</li> <li>Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of</li> </ul>
		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	1		
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.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.

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E-mail: agromet\_mnp@yahoo.co.uk

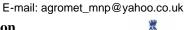
# "Gramin Krishi Mausam Seva"

Cabbage/ Cauliflower/ Tomato	Nursery Prepara	ation	<ul> <li>Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising.</li> <li>For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area.</li> <li>Select fertile area with sunshine and free from water logging.</li> <li>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).</li> </ul>
Animal Sciences			
Name of the animal	U	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	<ul> <li>Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days.</li> <li>Give green grasses sufficiently &amp; mix with ground maize/ rice bran.</li> <li>Add mineral mixture &amp; vitamins either in feed or water or both.</li> <li>At least use turpauline sheet for shelter of sites.</li> <li>Add water sanitizer in drinking water/ or add potash.</li> </ul> Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
Sheep/ Goat	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.
115	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 ¢ morning	1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
	age (as and when	Ectoparasite infestations	Diclorvo/ Organophosphates @ 60ml/ 20 lit of water.
Fishery:	required)		<ul> <li>Shift the animals in higher elevated site.</li> <li>Give Amoxyline/ Salbactum or any antibiotic for 5 days.</li> <li>Add mineral mixture &amp; vitamins either in feed or water or both.</li> <li>Add water sanitizer in drinking water/ or add potash.</li> </ul>
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	<ul> <li>For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond.</li> <li>Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.</li> <li>Sampling of fish for growth, disease should be done regularly by netting.</li> </ul>
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.

I. Meghachandra Singh Scientist i/c, IAAS

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## "Gramin Krishi Mausam Seva"

### MANIPUR BULLETIN 11<sup>th</sup> September, 2015

### Çhandel

Significant past weather for the preceding bi-weekly of Imphal - West (8 <sup>th</sup> to 10 <sup>th</sup> September, 2015)	Weather forecast for next five days of Chandel (12 <sup>th</sup> to 16 <sup>th</sup> September, 2015)
During last three days sky was mainly clear to mainly cloudy.	There may be light rain from Thursday. Sky will remain mainly
No rainfall was recorded during last four days. Maximum	clear to partly cloudy with maximum temp. of $30.0 - 33.0$ °C &
temperature range observed was 27.8 - 31.0 °C, range of	minimum temp. 22.0 – 24.0 °C. Relative humidity may reach
minimum temperature observed was 22.5 - 22.8 °C, mean	upto 99 % (max RH) & 84 % (min RH). The average wind
relative humidity observed in morning and afternoon were	speed may be 2-4 km/ hr during next five days. The Wind
87.0 % and 75.33 % respectively. The average wind speed	direction may be westerly upto Saturday and north-easterly to
range was 2.8 – 3.6 km/hr.	easterly upto Wednesday during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative to panicle initiation	Sucking insects Stem borer	<ul> <li>- 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.</li> <li>Imidachloprid @ 4-7 ml/ 15 litres of water.</li> <li>Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of</li> </ul>
		Stem rot	water (at least three pumps per sangam). Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/
Soybean	Flowering to fruiting	Rust	lit of water- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75% WP @ 1.25 to2 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		<u>.</u>	
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.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.

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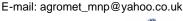
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Cabbage/ Cauliflower/	Nursery Prepara	ation	- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising.
Tomato			- For transplanting 1 sangam area 75g seed for hybrid variety can be sown
Tomato			in 12sq.m area.
			- Select 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 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/	Above 3	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @
Mithun	months of		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:	a.		
Type of Farming Carp culture	Stage Nurseries/ grow-	Management           Pond and water	Agro-metrological advisoriesMaintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime
Carp culture	-	Polid and water	@ 25-30kg/ ha everymonth.
	out		
		Feed	Broadcast Green AQ @2 litre/ha by mixing with water. Provide feed 2 times @ 5 % body weight per day.
		reeu	Provide reed 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
		1 1511	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	Pig		About 30-40 two months old pigs may be kept for fertilization of the one
Farming	-0		ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green
0			grasses or animal folder is also provided. Grass with interlocked soil in the
	1	1	
			root system (sod) is provided once a week to avoid mineral deficiency
	Duck		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 11<sup>th</sup> September, 2015

### Çhurachandpur

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 12<sup>th</sup> to 16<sup>th</sup> September, 2015 as below:

### Significant past weather for the preceding bi-weekly of Weather forecast for next five days of Churachandpur Imphal - West (8<sup>th</sup> to 10<sup>th</sup> September, 2015) (12<sup>th</sup> to 16<sup>th</sup> September, 2015) During last three days sky was mainly clear to mainly cloudy. There may be light rain from Thursday. Sky will remain mainly No rainfall was recorded during last four days. Maximum clear to partly cloudy with maximum temp. of 28.0 - 31.0 °C & temperature range observed was 27.8 - 31.0 °C, range of minimum temp. 21.0 - 23.0 °C. Relative humidity may reach minimum temperature observed was 22.5 - 22.8 °C, mean upto 99 % (max RH) & 59 % (min RH). The average wind relative humidity observed in morning and afternoon were speed may be 2-3 km/ hr during next five days. The Wind 87.0 % and 75.33 % respectively. The average wind speed direction may be westerly upto Saturday and north-easterly to range was 2.8 - 3.6 km/hr. easterly upto Wednesday during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	- <b>I</b>		
Kharif Rice	Vegetative to panicle initiation	Sucking insects	<ul> <li>- 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.</li> <li>Imidachloprid @ 4-7 ml/ 15 litres of water.</li> </ul>
		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.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.

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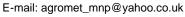


E-mail: agromet\_mnp@yahoo.co.uk

Cabbage/ Cauliflower/ Tomato	Nursery Prepara	ation	<ul> <li>Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising.</li> <li>For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area.</li> <li>Select fertile area with sunshine and free from water logging.</li> <li>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).</li> </ul>
Animal Sciences		1	
Name of the animal	e	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	<ul> <li>Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days.</li> <li>Give green grasses sufficiently &amp; mix with ground maize/ rice bran.</li> <li>Add mineral mixture &amp; vitamins either in feed or water or both.</li> <li>At least use turpauline sheet for shelter of sites.</li> <li>Add water sanitizer in drinking water/ or add potash.</li> </ul> Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
Sheep, com	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	Ectoparasite infestations	Diclorvo/ Organophosphates @ 60ml/ 20 lit of water.
Fishery:	required)		<ul> <li>Shift the animals in higher elevated site.</li> <li>Give Amoxyline/ Salbactum or any antibiotic for 5 days.</li> <li>Add mineral mixture &amp; vitamins either in feed or water or both.</li> <li>Add water sanitizer in drinking water/ or add potash.</li> </ul>
	Store	Management	Agro-metrological advisories
Type of Farming     Stage       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	<ul> <li>For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond.</li> <li>Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.</li> <li>Sampling of fish for growth, disease should be done regularly by netting.</li> </ul>
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.
			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 11<sup>th</sup> September, 2015

### Imphal-East

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - East
Imphal - West (8 <sup>th</sup> to 10 <sup>th</sup> September, 2015)	(12 <sup>th</sup> to 16 <sup>th</sup> September, 2015)
During last three days sky was mainly clear to mainly cloudy.	There may be light rain from Thursday. Sky will remain mainly
No rainfall was recorded during last four days. Maximum	clear to partly cloudy with maximum temp. of $30.0 - 32.0$ °C &
temperature range observed was 27.8 - 31.0 °C, range of	minimum temp. 22.0 – 24.0 °C. Relative humidity may reach
minimum temperature observed was 22.5 - 22.8 °C, mean	upto 100 % (max RH) & 62 % (min RH). The average wind
relative humidity observed in morning and afternoon were	speed may be 2-3 km/ hr during next five days. The Wind
87.0 % and 75.33 % respectively. The average wind speed	direction may be westerly upto Saturday and north-easterly to
range was 2.8 – 3.6 km/hr.	easterly upto Wednesday during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	- <b>I</b>		
Kharif Rice	Vegetative to panicle initiation	Sucking insects	<ul> <li>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.</li> <li>Imidachloprid @ 4-7 ml/ 15 litres of water.</li> </ul>
		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.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.

Highligh

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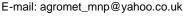


E-mail: agromet\_mnp@yahoo.co.uk

Cabbage/ Cauliflower/ Tomato	Nursery Prepara	ation	<ul> <li>Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising.</li> <li>For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area.</li> <li>Select fertile area with sunshine and free from water logging.</li> <li>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).</li> </ul>
Animal Sciences		1	
Name of the animal	e	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	<ul> <li>Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days.</li> <li>Give green grasses sufficiently &amp; mix with ground maize/ rice bran.</li> <li>Add mineral mixture &amp; vitamins either in feed or water or both.</li> <li>At least use turpauline sheet for shelter of sites.</li> <li>Add water sanitizer in drinking water/ or add potash.</li> </ul> Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
Sheep, com	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	Ectoparasite infestations	Diclorvo/ Organophosphates @ 60ml/ 20 lit of water.
Fishery:	required)		<ul> <li>Shift the animals in higher elevated site.</li> <li>Give Amoxyline/ Salbactum or any antibiotic for 5 days.</li> <li>Add mineral mixture &amp; vitamins either in feed or water or both.</li> <li>Add water sanitizer in drinking water/ or add potash.</li> </ul>
	Store	Management	Agro-metrological advisories
Type of Farming     Stage       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	<ul> <li>For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond.</li> <li>Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.</li> <li>Sampling of fish for growth, disease should be done regularly by netting.</li> </ul>
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.
			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 11<sup>th</sup> September, 2015

### Imphal-West

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 12<sup>th</sup> to 16<sup>th</sup> September, 2015 as below:

### Significant past weather for the preceding bi-weekly of Weather forecast for next five days of Imphal - West Imphal - West (8<sup>th</sup> to 10<sup>th</sup> September, 2015) (12<sup>th</sup> to 16<sup>th</sup> September, 2015) During last three days sky was mainly clear to mainly cloudy. There may be light rain from Thursday. Sky will remain mainly No rainfall was recorded during last four days. Maximum clear to partly cloudy with maximum temp. of 29.0 - 32.0 °C & temperature range observed was 27.8 - 31.0 °C, range of minimum temp. 23.0 - 24.0 °C. Relative humidity may reach minimum temperature observed was 22.5 - 22.8 °C, mean upto 100 % (max RH) & 57 % (min RH). The average wind relative humidity observed in morning and afternoon were speed may be 2-3 km/ hr during next five days. The Wind 87.0 % and 75.33 % respectively. The average wind speed direction may be westerly upto Saturday and north-easterly to range was 2.8 - 3.6 km/hr. easterly upto Wednesday during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative to 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.
		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 $2 \text{ kg/ ha}$ 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	1	T	
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.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.

Highligh

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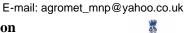


E-mail: agromet\_mnp@yahoo.co.uk

Cabbage/ Cauliflower/ Tomato	ıliflower/		<ul> <li>Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising.</li> <li>For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area.</li> <li>Select fertile area with sunshine and free from water logging.</li> <li>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).</li> </ul>
Animal Sciences		1	
Name of the animal	e	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	<ul> <li>Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days.</li> <li>Give green grasses sufficiently &amp; mix with ground maize/ rice bran.</li> <li>Add mineral mixture &amp; vitamins either in feed or water or both.</li> <li>At least use turpauline sheet for shelter of sites.</li> <li>Add water sanitizer in drinking water/ or add potash.</li> </ul> Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
Sheep, com	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 1 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	Ectoparasite infestations	Diclorvo/ Organophosphates @ 60ml/ 20 lit of water.
Fishery:	required)		<ul> <li>Shift the animals in higher elevated site.</li> <li>Give Amoxyline/ Salbactum or any antibiotic for 5 days.</li> <li>Add mineral mixture &amp; vitamins either in feed or water or both.</li> <li>Add water sanitizer in drinking water/ or add potash.</li> </ul>
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	<ul> <li>For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond.</li> <li>Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.</li> <li>Sampling of fish for growth, disease should be done regularly by netting.</li> </ul>
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.
			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 11<sup>th</sup> September, 2015

### Senapati

Significant past weather for the preceding bi-weekly of Imphal - West (8 <sup>th</sup> to 10 <sup>th</sup> September, 2015)	Weather forecast for next five days of Senapati (12 <sup>th</sup> to 16 <sup>th</sup> September, 2015)
During last three days sky was mainly clear to mainly cloudy.	There may be light rain from Thursday. Sky will remain mainly
No rainfall was recorded during last four days. Maximum	clear to partly cloudy with maximum temp. of $26.0 - 30.0$ °C &
temperature range observed was 27.8 - 31.0 °C, range of	minimum temp. 17.0 - 20.0 °C. Relative humidity may reach
minimum temperature observed was 22.5 - 22.8 °C, mean	upto 99 % (max RH) & 57 % (min RH). The average wind
relative humidity observed in morning and afternoon were	speed may be 2-4 km/ hr during next five days. The Wind
87.0 % and 75.33 % respectively. The average wind speed	direction may be westerly upto Saturday and north-easterly to
range was 2.8 – 3.6 km/hr.	easterly upto Wednesday during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	- <b>I</b>		
Kharif Rice	Vegetative to 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.
		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.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.

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E-mail: agromet\_mnp@yahoo.co.uk

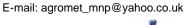
# "Gramin Krishi Mausam Seva"

Cabbage/ Cauliflower/ TomatoNursery Prepara		ation	<ul> <li>Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising.</li> <li>For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area.</li> <li>Select fertile area with sunshine and free from water logging.</li> <li>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.</li> <li>Cabbage: White flash (medium size) and Swetha (big size).</li> </ul>
Animal Sciences			
Name of the animal	U	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	<ul> <li>Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days.</li> <li>Give green grasses sufficiently &amp; mix with ground maize/ rice bran.</li> <li>Add mineral mixture &amp; vitamins either in feed or water or both.</li> <li>At least use turpauline sheet for shelter of sites.</li> <li>Add water sanitizer in drinking water/ or add potash.</li> </ul> Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
Sheep/ Goat	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.
115	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 ¢ morning	1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
	age (as and when	Ectoparasite infestations	Diclorvo/ Organophosphates @ 60ml/ 20 lit of water.
Fishery:	required)		<ul> <li>Shift the animals in higher elevated site.</li> <li>Give Amoxyline/ Salbactum or any antibiotic for 5 days.</li> <li>Add mineral mixture &amp; vitamins either in feed or water or both.</li> <li>Add water sanitizer in drinking water/ or add potash.</li> </ul>
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	<ul> <li>For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond.</li> <li>Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.</li> <li>Sampling of fish for growth, disease should be done regularly by netting.</li> </ul>
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.

I. Meghachandra Singh Scientist i/c, IAAS

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### "Gramin Krishi Mausam Seva"

### MANIPUR BULLETIN 11<sup>th</sup> September, 2015

### Tamenglong

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (8 <sup>th</sup> to 10 <sup>th</sup> September, 2015)	(12 <sup>th</sup> to 16 <sup>th</sup> September, 2015)
During last three days sky was mainly clear to mainly cloudy.	There may be light rain from Thursday. Sky will remain mainly
No rainfall was recorded during last four days. Maximum	clear to partly cloudy with maximum temp. of $30.0 - 33.0$ °C &
temperature range observed was 27.8 - 31.0 °C, range of	minimum temp. 23.0 – 24.0 °C. Relative humidity may reach
minimum temperature observed was 22.5 - 22.8 °C, mean	upto 100 % (max RH) & 55 % (min RH). The average wind
relative humidity observed in morning and afternoon were	speed may be 2-3 km/ hr during next five days. The Wind
87.0 % and 75.33 % respectively. The average wind speed	direction may be westerly upto Saturday and north-easterly to
range was 2.8 – 3.6 km/hr.	easterly upto Wednesday during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	i.		
Kharif Rice	Vegetative to 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.
		Stem borer Stem rot	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam). Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/
Soybean	Flowering to fruiting	Rust	lit of water- Spray Bayleton @ 10g/ 15 ml of water or Mancozeb 75% WP @ 1.25 to2 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.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.

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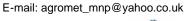
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Cabbage/ Cauliflower/	Nursery Prepara	ation	- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising.
Tomato			- For transplanting 1 sangam area 75g seed for hybrid variety can be sown
Tomato			in 12sq.m area.
			- Select 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		1	
Name of the animal	8	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.
			- 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/	Above 3	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @
Mithun	months of		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:	a.		
Type of Farming Carp culture	Stage Nurseries/ grow-	Management           Pond and water	Agro-metrological advisoriesMaintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime
Carp culture	out	Polid and water	@ 25-30kg/ ha everymonth.
	out		Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day.
		recu	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	Pig		About 30-40 two months old pigs may be kept for fertilization of the one
Farming			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 11<sup>th</sup> September, 2015

### Thoubal

Significant past weather for the preceding bi-weekly of Imphal - West (8 <sup>th</sup> to 10 <sup>th</sup> September, 2015)	Weather forecast for next five days of Thoubal (12 <sup>th</sup> to 16 <sup>th</sup> September, 2015)
During last three days sky was mainly clear to mainly cloudy.	There may be light rain from Thursday. Sky will remain mainly
No rainfall was recorded during last four days. Maximum	clear to partly cloudy with maximum temp. of 29.0 – 32.0 °C &
temperature range observed was 27.8 – 31.0 °C, range of	minimum temp. 21.0 – 23.0 °C. Relative humidity may reach
minimum temperature observed was 22.5 – 22.8 °C, mean	upto 100 % (max RH) & 75 % (min RH). The average wind
relative humidity observed in morning and afternoon were	speed may be 2-4 km/ hr during next five days. The Wind
87.0 % and 75.33 % respectively. The average wind speed	direction may be westerly upto Saturday and north-easterly to
range was 2.8 – 3.6 km/hr.	easterly upto Wednesday during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	- H		
Kharif Rice	Vegetative to 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.
		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.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.

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Cabbage/ Cauliflower/	Nursery Prepara	ation	- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising.
Tomato			- For transplanting 1 sangam area 75g seed for hybrid variety can be sown
Tomato			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		1	T
Name of the animal	8	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.
			- 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 months of age	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/	Above 3	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @
Mithun	months of		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.
Fishery:			- Add water sanitizer in drinking water/ or add potash.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-	Pond and water	Maintain minimum depth of $1.0 - 1.5$ m and pH at $7.0 - 7.5$ . Apply Lime
I	out	- one and water	@ 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	Pig		About 30-40 two months old pigs may be kept for fertilization of the one
Farming			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.



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



### "Gramin Krishi Mausam Seva"

### MANIPUR BULLETIN 11<sup>th</sup> September, 2015

### Ukhrul

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (8 <sup>th</sup> to 10 <sup>th</sup> September, 2015)	(12 <sup>th</sup> to 16 <sup>th</sup> September, 2015)
During last three days sky was mainly clear to mainly cloudy.	There may be light rain from Thursday. Sky will remain mainly
No rainfall was recorded during last four days. Maximum	clear to partly cloudy with maximum temp. of $27.0 - 30.0$ °C &
temperature range observed was 27.8 - 31.0 °C, range of	minimum temp. 17.0 - 19.0 °C. Relative humidity may reach
minimum temperature observed was 22.5 – 22.8 °C, mean	upto 98 % (max RH) & 71 % (min RH). The average wind
relative humidity observed in morning and afternoon were	speed may be 2-3 km/ hr during next five days. The Wind
87.0 % and 75.33 % respectively. The average wind speed	direction may be westerly upto Saturday and north-easterly to
range was 2.8 – 3.6 km/hr.	easterly upto Wednesday during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	- L	_1	
Kharif Rice	Vegetative to panicle initiation	<u> </u>	- 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.
		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.
Onion	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.

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



Cabbage/ Cauliflower/	Nursery Preparation		- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising.
Tomato			- For transplanting 1 sangam area 75g seed for hybrid variety can be sown
Tomato			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		1	T
Name of the animal	8	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age groups	Contingency plan and	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days.
Turkey/ Duck)		management	- 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 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	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @
	months of		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:	Ct	Management	
Type of Farming Carp culture	Stage Nurseries/ grow-	Management           Pond and water	Agro-metrological advisoriesMaintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime
	out	i onu anu water	@ 25-30kg/ ha everymonth.
	Jui		Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day.
		ruu	Provide reed 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.