



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



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**18<sup>th</sup> September, 2015**

**Senapati**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19<sup>th</sup> to 23<sup>rd</sup> September, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 17<sup>th</sup> September, 2015)**

During last three days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 15<sup>th</sup> Sept. No rainfall was recorded during last three days. Maximum temperature range observed was 30.0 – 32.1 °C, range of minimum temperature observed was 22.0 – 22.5 °C, mean relative humidity observed in morning and afternoon were 88.0 % and 66.33 % respectively. The average wind speed range was 2.6 – 4.1 km/hr.

**Weather forecast for next five days of Senapati (19<sup>th</sup> to 23<sup>rd</sup> September, 2015)**

There may be light rain during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. of 25.0 – 29.0 °C & minimum temp. 16.0 – 19.0 °C. Relative humidity may reach upto 99 % (max RH) & 82 % (min RH). The average wind speed may be 2 km/ hr during next five days. The Wind direction may be westerly upto Wednesday and north-easterly to easterly upto Sunday during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Panicle initiation to flowering		- 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 rot	Kocide-101 @ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
<b>Soybean/ Groundnut</b>	Fruiting/ Pegging	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).
<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>French Bean, Broad bean &amp; Pea</b>	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.
<b>Rabi vegetables</b>	Land preparation		Procure good quality seeds of carrot, raddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
<b>Onion</b>	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
<b>Ginger</b>	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
<b>Ginger / Turmeric</b>	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
<b>Cabbage/ Cauliflower/ Tomato</b>	Nursery Preparation		- 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 and sunny area 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.



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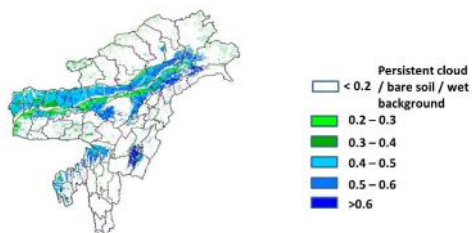


**“Gramin Krishi Mausam Seva”**

			Recommended varieties: Cabbage: Rareball. Cauliflower: White flash (medium size) and Swetha (big size).
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Turkey/ Duck)</b>	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.
			Start keeping new batch chicks in case of layer variety.
<b>Sheep/ Goat</b>	<b>Above 3 months of age</b>	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
<b>Pig</b>	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight ( Ranizole).
		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.
<b>Fishery:</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	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.
<b>In integrated Fish Farming</b>	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.

**North East Region**

15 September 2015



Agriculture vigour is normal in northern regions of North-East states where NDVI values ranges from 0.2-0.4, whereas, agricultural vigour is good (0.4-0.6) in the central, southern and eastern states of North-East.

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



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**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**18<sup>th</sup> September, 2015**

**Tamenglong**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19<sup>th</sup> to 23<sup>rd</sup> September, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 17<sup>th</sup> September, 2015)**

During last three days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 15<sup>th</sup> Sept. No rainfall was recorded during last three days. Maximum temperature range observed was 30.0 – 32.1 °C, range of minimum temperature observed was 22.0 – 22.5 °C, mean relative humidity observed in morning and afternoon were 88.0 % and 66.33 % respectively. The average wind speed range was 2.6 – 4.1 km/hr.

**Weather forecast for next five days of Tamenglong (19<sup>th</sup> to 23<sup>rd</sup> September, 2015)**

There may be light rain during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. of 30.0 – 34.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach upto 100 % (max RH) & 87 % (min RH). The average wind speed may be 0-3 km/ hr during next five days. The Wind direction may be westerly upto Wednesday and north-easterly to easterly upto Sunday during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Panicle initiation to flowering		- 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 rot	Kocide-101 @ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
<b>Soybean/ Groundnut</b>	Fruiting/ Pegging	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).
<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>French Bean, Broad bean &amp; Pea</b>	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.
<b>Rabi vegetables</b>	Land preparation		Procure good quality seeds of carrot, raddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
<b>Onion</b>	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
<b>Ginger</b>	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
<b>Ginger / Turmeric</b>	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
<b>Cabbage/ Cauliflower/ Tomato</b>	Nursery Preparation		- 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 and sunny area 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.



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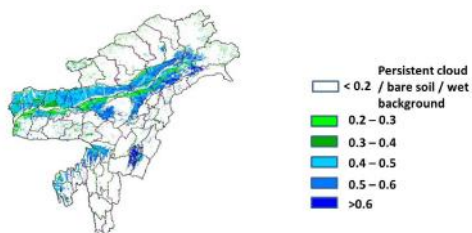


**“Gramin Krishi Mausam Seva”**

			Recommended varieties: Cabbage: Rareball. Cauliflower: White flash (medium size) and Swetha (big size).
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Turkey/ Duck)</b>	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.
			Start keeping new batch chicks in case of layer variety.
<b>Sheep/ Goat</b>	<b>Above 3 months of age</b>	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
<b>Pig</b>	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight ( Ranizole).
		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.
<b>Fishery:</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	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.
<b>In integrated Fish Farming</b>	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.

**North East Region**

15 September 2015



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**Thoubal**

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**Weather forecast for next five days of Thoubal (19<sup>th</sup> to 23<sup>rd</sup> September, 2015)**

There may be light rain during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. of 29.0 – 32.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 90 % (min RH). The average wind speed may be 0-4 km/ hr during next five days. The Wind direction may be westerly upto Wednesday and north-easterly to easterly upto Sunday during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Panicle initiation to flowering		- 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 rot	Kocide-101 @ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
<b>Soybean/ Groundnut</b>	Fruiting/ Pegging	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).
<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>French Bean, Broad bean &amp; Pea</b>	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.
<b>Rabi vegetables</b>	Land preparation		Procure good quality seeds of carrot, raddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
<b>Onion</b>	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
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<b>Cabbage/ Cauliflower/ Tomato</b>	Nursery Preparation		- 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 and sunny area 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.



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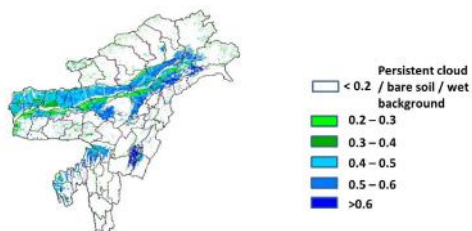


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<b>In integrated Fish Farming</b>	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
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<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>French Bean, Broad bean &amp; Pea</b>	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.
<b>Rabi vegetables</b>	Land preparation		Procure good quality seeds of carrot, raddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
<b>Onion</b>	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
<b>Ginger</b>	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
<b>Ginger / Turmeric</b>	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
<b>Cabbage/ Cauliflower/ Tomato</b>	Nursery Preparation		- 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 and sunny area 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.



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

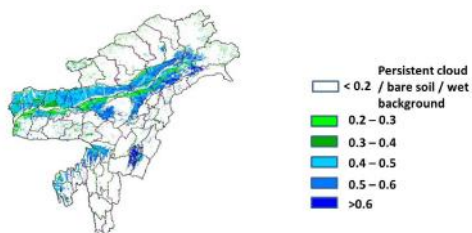


**“Gramin Krishi Mausam Seva”**

			Recommended varieties: Cabbage: Rareball. Cauliflower: White flash (medium size) and Swetha (big size).
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Turkey/ Duck)</b>	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.
			Start keeping new batch chicks in case of layer variety.
<b>Sheep/ Goat</b>	<b>Above 3 months of age</b>	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
<b>Pig</b>	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight ( Ranizole).
		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.
<b>Fishery:</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	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.
<b>In integrated Fish Farming</b>	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.

**North East Region**

15 September 2015



Agriculture vigour is normal in northern regions of North-East states where NDVI values ranges from 0.2-0.4, whereas, agricultural vigour is good (0.4-0.6) in the central, southern and eastern states of North-East.

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





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



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**18<sup>th</sup> September, 2015**

**Bishnupur**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19<sup>th</sup> to 23<sup>rd</sup> September, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 17<sup>th</sup> September, 2015)**

During last three days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 15<sup>th</sup> Sept. No rainfall was recorded during last three days. Maximum temperature range observed was 30.0 – 32.1 °C, range of minimum temperature observed was 22.0 – 22.5 °C, mean relative humidity observed in morning and afternoon were 88.0 % and 66.33 % respectively. The average wind speed range was 2.6 – 4.1 km/hr.

**Weather forecast for next five days of Bishnupur (19<sup>th</sup> to 23<sup>rd</sup> September, 2015)**

There may be light rain during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. of 30.0 – 33.0 °C & minimum temp. 22.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 90 % (min RH). The average wind speed may be 0-2 km/ hr during next five days. The Wind direction may be westerly upto Wednesday and north-easterly to easterly upto Sunday during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Panicle initiation to flowering		- 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 rot	Kocide-101 @ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
<b>Soybean/ Groundnut</b>	Fruiting/ Pegging	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).
<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>French Bean, Broad bean &amp; Pea</b>	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.
<b>Rabi vegetables</b>	Land preparation		Procure good quality seeds of carrot, raddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
<b>Onion</b>	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
<b>Ginger</b>	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
<b>Ginger / Turmeric</b>	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
<b>Cabbage/ Cauliflower/ Tomato</b>	Nursery Preparation		- 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 and sunny area 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.



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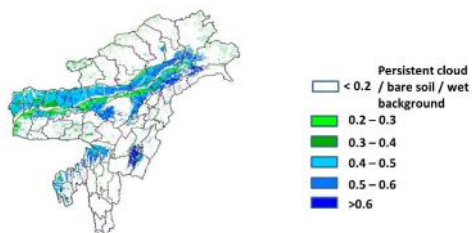


**“Gramin Krishi Mausam Seva”**

			Recommended varieties: Cabbage: Rareball. Cauliflower: White flash (medium size) and Swetha (big size).
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Turkey/ Duck)</b>	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.
			Start keeping new batch chicks in case of layer variety.
<b>Sheep/ Goat</b>	<b>Above 3 months of age</b>	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
<b>Pig</b>	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight ( Ranizole).
		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.
<b>Fishery:</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	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.
<b>In integrated Fish Farming</b>	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.

**North East Region**

15 September 2015



Agriculture vigour is normal in northern regions of North-East states where NDVI values ranges from 0.2-0.4, whereas, agricultural vigour is good (0.4-0.6) in the central, southern and eastern states of North-East.

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



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



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**18<sup>th</sup> September, 2015**

**Chandel**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19<sup>th</sup> to 23<sup>rd</sup> September, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 17<sup>th</sup> September, 2015)**

During last three days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 15<sup>th</sup> Sept. No rainfall was recorded during last three days. Maximum temperature range observed was 30.0 – 32.1 °C, range of minimum temperature observed was 22.0 – 22.5 °C, mean relative humidity observed in morning and afternoon were 88.0 % and 66.33 % respectively. The average wind speed range was 2.6 – 4.1 km/hr.

**Weather forecast for next five days of Chandel (19<sup>th</sup> to 23<sup>rd</sup> September, 2015)**

There may be light rain during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 20.0 – 22.0 °C. Relative humidity may reach upto 100 % (max RH) & 94 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be westerly upto Wednesday and north-easterly to easterly upto Sunday during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Panicle initiation to flowering		- 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 rot	Kocide-101 @ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
<b>Soybean/ Groundnut</b>	Fruiting/ Pegging	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).
<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>French Bean, Broad bean &amp; Pea</b>	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.
<b>Rabi vegetables</b>	Land preparation		Procure good quality seeds of carrot, raddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
<b>Onion</b>	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
<b>Ginger</b>	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
<b>Ginger / Turmeric</b>	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
<b>Cabbage/ Cauliflower/ Tomato</b>	Nursery Preparation		- 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 and sunny area 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.



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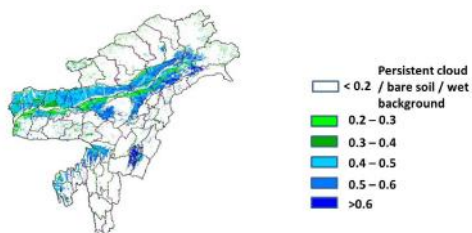


**“Gramin Krishi Mausam Seva”**

			Recommended varieties: Cabbage: Rareball. Cauliflower: White flash (medium size) and Swetha (big size).
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Turkey/ Duck)</b>	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.
			Start keeping new batch chicks in case of layer variety.
<b>Sheep/ Goat</b>	<b>Above 3 months of age</b>	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
<b>Pig</b>	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight ( Ranizole).
		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.
<b>Fishery:</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	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.
<b>In integrated Fish Farming</b>	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.

**North East Region**

15 September 2015



Agriculture vigour is normal in northern regions of North-East states where NDVI values ranges from 0.2-0.4, whereas, agricultural vigour is good (0.4-0.6) in the central, southern and eastern states of North-East.

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





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



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**18<sup>th</sup> September, 2015**

**Churachandpur**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19<sup>th</sup> to 23<sup>rd</sup> September, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 17<sup>th</sup> September, 2015)**

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**Weather forecast for next five days of Churachandpur (19<sup>th</sup> to 23<sup>rd</sup> September, 2015)**

There may be light rain during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 20.0 – 22.0 °C. Relative humidity may reach upto 100 % (max RH) & 93 % (min RH). The average wind speed may be 0-3 km/ hr during next five days. The Wind direction may be westerly upto Wednesday and north-easterly to easterly upto Sunday during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Panicle initiation to flowering		- 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 rot	Kocide-101 @ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
<b>Soybean/ Groundnut</b>	Fruiting/ Pegging	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).
<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>French Bean, Broad bean &amp; Pea</b>	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.
<b>Rabi vegetables</b>	Land preparation		Procure good quality seeds of carrot, raddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
<b>Onion</b>	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
<b>Ginger</b>	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
<b>Ginger / Turmeric</b>	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
<b>Cabbage/ Cauliflower/ Tomato</b>	Nursery Preparation		- 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 and sunny area 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.



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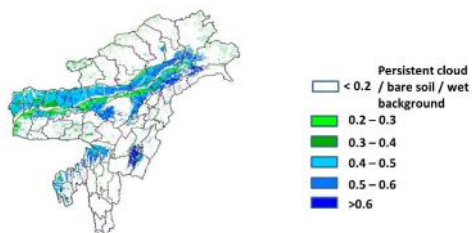


**“Gramin Krishi Mausam Seva”**

			Recommended varieties: Cabbage: Rareball. Cauliflower: White flash (medium size) and Swetha (big size).
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Turkey/ Duck)</b>	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.
			Start keeping new batch chicks in case of layer variety.
<b>Sheep/ Goat</b>	<b>Above 3 months of age</b>	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
<b>Pig</b>	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight ( Ranizole).
		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.
<b>Fishery:</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	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.
<b>In integrated Fish Farming</b>	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.

**North East Region**

15 September 2015



Agriculture vigour is normal in northern regions of North-East states where NDVI values ranges from 0.2-0.4, whereas, agricultural vigour is good (0.4-0.6) in the central, southern and eastern states of North-East.

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



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



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**18<sup>th</sup> September, 2015**

**Imphal-East**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19<sup>th</sup> to 23<sup>rd</sup> September, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 17<sup>th</sup> September, 2015)**

During last three days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 15<sup>th</sup> Sept. No rainfall was recorded during last three days. Maximum temperature range observed was 30.0 – 32.1 °C, range of minimum temperature observed was 22.0 – 22.5 °C, mean relative humidity observed in morning and afternoon were 88.0 % and 66.33 % respectively. The average wind speed range was 2.6 – 4.1 km/hr.

**Weather forecast for next five days of Imphal - East (19<sup>th</sup> to 23<sup>rd</sup> September, 2015)**

There may be light rain during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach upto 100 % (max RH) & 84 % (min RH). The average wind speed may be 0-2 km/ hr during next five days. The Wind direction may be westerly upto Wednesday and north-easterly to easterly upto Sunday during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Panicle initiation to flowering		- 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 rot	Kocide-101 @ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
<b>Soybean/ Groundnut</b>	Fruiting/ Pegging	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).
<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>French Bean, Broad bean &amp; Pea</b>	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.
<b>Rabi vegetables</b>	Land preparation		Procure good quality seeds of carrot, raddish, coriander, cauliflower, cabbage, broccoli, etc. Prepare land for sowing or planting.
<b>Onion</b>	Nursery		Preparation for raising nursery (variety- Nasik Red) in slightly cooler and drier area in bright sunshine.
<b>Ginger</b>	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
<b>Ginger / Turmeric</b>	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
<b>Cabbage/ Cauliflower/ Tomato</b>	Nursery Preparation		- 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 and sunny area 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.



**ICAR Research Complex for N.E.H. Region  
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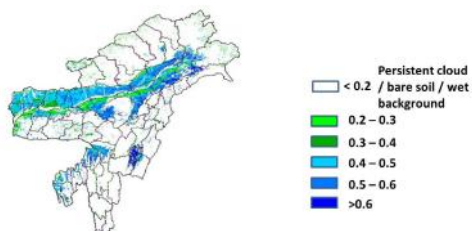


**“Gramin Krishi Mausam Seva”**

			Recommended varieties: Cabbage: Rareball. Cauliflower: White flash (medium size) and Swetha (big size).
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Turkey/ Duck)</b>	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.
			Start keeping new batch chicks in case of layer variety.
<b>Sheep/ Goat</b>	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
<b>Pig</b>	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight ( Ranizole).
		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.
<b>Fishery:</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	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.
<b>In integrated Fish Farming</b>	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.

**North East Region**

15 September 2015



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**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**18<sup>th</sup> September, 2015**

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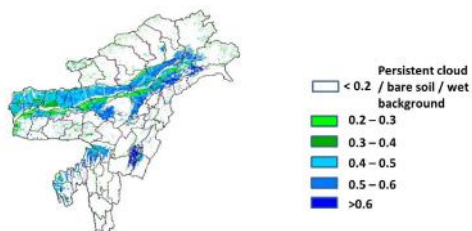


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