

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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 22nd 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 23rd to 27th September, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(18^{th}\ to\ 21^{st}\ September,\ 2015)$

During last four days skiy was partly cloudy to mainly cloudy but mainly clear during morning hours of $18^{\rm th}$ Sept. **77.9** rainfall was recorded during last four days. Maximum temperature range observed was 27.0-32.8 $^{\rm o}{\rm C}$, range of minimum temperature observed was 19.6-22.4 $^{\rm o}{\rm C}$, mean relative humidity observed in morning and afternoon were 86.0% and 77.75% respectively. The average wind speed range was 2.8-4.9 km/hr.

Weather forecast for next five days of Senapati (23rd to 27th September, 2015)

There may be light to moderate rain during next five days but heavy rainfall at isolated places during 24th and 25th Sept. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 24.0 – 27.0 °C & minimum temp. 14.0 – 16.0 °C. Relative humidity may reach upto 99 % (max RH) & 72 % (min RH). The average wind speed may be 0-2 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		-	
			ng of insecticides or pesticides. Insecticides and pesticides must not be 2 5ml/ pump if it rains with less duration of intervals.
Kharif Rice			- Maintain water depth of 5cm in the rice field.
	Flowering	Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		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 Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean/ Groundnut	Fruiting/ Pegging		Keep the plot clean and weed free.
Soybean Grounding	Truiting/Tegging	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	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or
		caterpillars	spray Dichlorovos 76 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			grams, store in wen ventuated godowns with regular cheek for moisture.
French Bean, Broad bean & Pea	Land preparation		Apply 28 kg DAP and 10 kg MOP per sangam as basal dose. Sowing may be done. Semi-shed area is preferred for sowing broad bean. 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		Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases.
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. For transplanting 1 sangam area 75g seed for hybrid
Tomato			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 roin shelter structures may be used to protect against prinfell.
			Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball.
Animal Sciences			Cauliflower: White flash (medium size) and Swetha (big size).
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 - Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat the same dose after 7 days. - Proper light is to be provided for layers. - No light for grower groups.
			- Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox
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
Pig	All age	Management	- Keep sheds dry.
	groups	Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
	age (as and when	Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
	required)	Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow- out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime @ 25-30kg/ ha every month or 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, 10000-12000 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
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 ha pond.



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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 23rd to 27th September, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(18^{th} \text{ to } 21^{st} \text{ September}, 2015)$

During last four days skiy was partly cloudy to mainly cloudy but mainly clear during morning hours of 18^{th} Sept. **77.9** rainfall was recorded during last four days. Maximum temperature range observed was 27.0-32.8 °C, range of minimum temperature observed was 19.6-22.4 °C, mean relative humidity observed in morning and afternoon were 86.0 % and 77.75 % respectively. The average wind speed range was 2.8-4.9 km/hr.

Weather forecast for next five days of Tamenglong (23rd to 27th September, 2015)

There may be light to moderate rain during next five days but heavy rainfall at isolated places during 24th and 25th Sept. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 26.0 – 30.0 °C & minimum temp. 16.0 – 19.0 °C. Relative humidity may reach upto 100 % (max RH) & 86 % (min RH). The average wind speed may be 2 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		'	
			ng of insecticides or pesticides. Insecticides and pesticides must not be
	ing. Farmers are advis	ed to add stickers @	5ml/ pump if it rains with less duration of intervals.
Kharif Rice			- Maintain water depth of 5cm in the rice field.
	Flowering	Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		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 Lambdacyhothrin @ 15ml/15 litre of
Soybean/ Groundnut	Emilia -/ Dania		water (at least three pumps per sangam).
Soybean/ Groundhut	Fruiting/ Pegging	D .	Keep the plot clean and weed free.
		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	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha o
		caterpillars	spray Dichlorovos 76 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		Apply 28 kg DAP and 10 kg MOP per sangam as basal dose. Sowing may be done. Semi-shed area is preferred for sowing broad bean. Recommended varieties for French bean are – Pant Anupam, Anupam (to
broad bean & rea			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		Raise nursery. Land preparation for transplanting the nursery may be
			started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having
			duration of 100-110 days. Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases.
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/ Tomato	Nursery Prepara	ation	 - Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. - Select fertile 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. Recommended varieties: Cabbage: Rareball. Cauliflower: White flash (medium size) and Swetha (big size).
Animal Sciences	Constant	D'array / 'ar Cantad'array	A
Name of the animal Poultry (Chicken/		Disease/ infestation	Agro-meteorological advisories
Turkey/ Duck)	All age groups	Care & management	 - Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat the same dose after 7 days. - Proper light is to be provided for layers. - No light for grower groups. - Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl	-Vaccine has to be given for Fowl pox
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
Pig	All age	Management	- Keep sheds dry.
	groups	Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
	age (as and when	Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
	required)	Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow- out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime @ 25-30kg/ ha every month or 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, 10000-12000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.



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Thoubal

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Weather forecast for next five days of Thoubal (23rd to 27th September, 2015)

There may be light to moderate rain during next five days but heavy rainfall at isolated places during 24th and 25th Sept. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 27.0 – 29.0 °C & minimum temp. 17.0 – 19.0 °C. Relative humidity may reach upto 100 % (max RH) & 82 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	1	-1	
			ng of insecticides or pesticides. Insecticides and pesticides must not be 2 5ml/ pump if it rains with less duration of intervals.
Kharif Rice			- Maintain water depth of 5cm in the rice field.
	Flowering	Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		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 Lambdacyhothrin @ 15ml/ 15 litre of
			water (at least three pumps per sangam).
Soybean/ Groundnut	Fruiting/ Pegging		Keep the plot clean and weed free.
		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	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or
		caterpillars	spray Dichlorovos 76 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			grains, store in wen ventrated godowns with regular check for moisture.
French Bean, Broad bean & Pea	Land preparation		Apply 28 kg DAP and 10 kg MOP per sangam as basal dose. Sowing may be done. Semi-shed area is preferred for sowing broad bean. 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		Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases.
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/ Tomato	Nursery Prepar	ation	 - Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. - Select fertile 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. Recommended varieties: Cabbage: Rareball. Cauliflower: White flash (medium size) and Swetha (big size).
Animal Sciences Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat the same dose after 7 days Proper light is to be provided for layers No light for grower groups Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl	-Vaccine has to be given for Fowl pox
Sheep/ Goat	Above 3 months of age	Vaccination Deworming	 - Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs). - Give Ranizole suspension @ 3ml/ 10 kg body weight
Pig	All age groups	Management Deworming	- Keep sheds dry. Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
	age (as and when required)	Ectoparasitic infestation Black Quarter/ Black leg disease	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow- out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime @ 25-30kg/ ha every month or 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, 10000-12000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
Duck			200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.



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Weather forecast for next five days of Ukhrul (23rd to 27th September, 2015)

There may be light to moderate rain during next five days but heavy rainfall at isolated places during 24th and 25th Sept. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 25.0 – 27.0 °C & minimum temp. 14.0 – 16.0 °C. Relative humidity may reach upto 99 % (max RH) & 78 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
			ng of insecticides or pesticides. Insecticides and pesticides must not be
	ing. Farmers are advis	ed to add stickers @	5ml/ pump if it rains with less duration of intervals.
Kharif Rice			- Maintain water depth of 5cm in the rice field.
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		Stem rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of
0 1 /0 1 /	T (D		water (at least three pumps per sangam).
Soybean/ Groundnut	Fruiting/ Pegging		Keep the plot clean and weed free.
		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	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or
		caterpillars	spray Dichlorovos 76 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	1 1 201 7 17 1401 1407
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Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases.
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Name of the animal Poultry (Chicken/		Disease/ infestation	Agro-meteorological advisories
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Pig	All age	Management	- Keep sheds dry.
	groups	Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
	age (as and when	Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
	required)	Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
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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 every month or 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, 10000-12000 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.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 22nd 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 23rd to 27th September, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (18th to 21st September, 2015)

During last four days skiy was partly cloudy to mainly cloudy but mainly clear during morning hours of 18^{th} Sept. **77.9** rainfall was recorded during last four days. Maximum temperature range observed was 27.0-32.8 °C, range of minimum temperature observed was 19.6-22.4 °C, mean relative humidity observed in morning and afternoon were 86.0 % and 77.75 % respectively. The average wind speed range was 2.8-4.9 km/hr.

Weather forecast for next five days of Bishnupur (23rd to 27th September, 2015)

There may be light to moderate rain during next five days but heavy rainfall at isolated places during 24th and 25th Sept. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 26.0 – 29.0 °C & minimum temp. 17.0 – 20.0 °C. Relative humidity may reach upto 100 % (max RH) & 85 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	1	l	1
			ng of insecticides or pesticides. Insecticides and pesticides must not be
combined while spray	ing. Farmers are advis	ed to add stickers @	9 5ml/ pump if it rains with less duration of intervals.
Kharif Rice			- Maintain water depth of 5cm in the rice field.
	Flowering	Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		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 Lambdacyhothrin @ 15ml/15 litre of
			water (at least three pumps per sangam).
Soybean/ Groundnut	Fruiting/ Pegging		Keep the plot clean and weed free.
		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	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha o
		caterpillars	spray Dichlorovos 76 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. Fo grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			grams, store in wen ventuated godowns with regular effect for moisture.
French Bean, Broad bean & Pea	Land preparation		Apply 28 kg DAP and 10 kg MOP per sangam as basal dose. Sowing may be done. Semi-shed area is preferred for sowing broad bean. 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		Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases.
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.



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



Cabbage/ Cauliflower/	Nursery Prepara	ation	- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. For transplanting 1 sangam area 75g seed for hybrid
Tomato			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. Recommended varieties: Cabbage: Rareball.
			Cauliflower: White flash (medium size) and Swetha (big size).
Animal Sciences Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat the same dose after 7 days. Proper light is to be provided for layers. No light for grower groups.
		Vaccination for Fowl	- Start keeping new batch chicks in case of layer varietyVaccine has to be given for Fowl pox
Sheep/ Goat	Above 3 months of age	Vaccination Deworming	 Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs). Give Ranizole suspension @ 3ml/ 10 kg body weight
Pig	All age groups	Management Deworming	- Keep sheds dry. 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	Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
	required)	Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
Fishery:			
Type of Farming Stage Carp culture Nurseries/ growout		Management Pond and water	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime @ 25-30kg/ ha every month or 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, 10000-12000 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.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 22nd 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 23rd to 27th September, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (18th to 21st September, 2015)

During last four days skiy was partly cloudy to mainly cloudy but mainly clear during morning hours of 18^{th} Sept. **77.9** rainfall was recorded during last four days. Maximum temperature range observed was 27.0-32.8 °C, range of minimum temperature observed was 19.6-22.4 °C, mean relative humidity observed in morning and afternoon were 86.0 % and 77.75 % respectively. The average wind speed range was 2.8-4.9 km/hr.

Weather forecast for next five days of Chandel (23rd to 27th September, 2015)

There may be light to moderate rain during next five days but heavy rainfall at isolated places during 24th and 25th Sept. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 25.0 – 28.0 °C & minimum temp. 17.0 – 18.0 °C. Relative humidity may reach upto 99 % (max RH) & 84 % (min RH). The average wind speed may be 2-5 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	1		
* Sprayers used to spr	ay weedicide must not	be used for spraying	ng of insecticides or pesticides. Insecticides and pesticides must not be
			5 ml/ pump if it rains with less duration of intervals.
Kharif Rice			- Maintain water depth of 5cm in the rice field.
	Flowering	Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		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 Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean/ Groundnut	Fruiting/ Pegging		Keep the plot clean and weed free.
	Truiting/Togging	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	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or
		caterpillars	spray Dichlorovos 76 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			grams, store in wen ventuated godowns with regular effect for moisture.
French Bean, Broad bean & Pea	Land preparation		Apply 28 kg DAP and 10 kg MOP per sangam as basal dose. Sowing may be done. Semi-shed area is preferred for sowing broad bean. 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		Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases.
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.



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



Cabbage/ Cauliflower/	Nursery Prepara	ation	- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. For transplanting 1 sangam area 75g seed for hybrid
Tomato			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. Recommended varieties:
			Cabbage: Rareball. Cauliflower: White flash (medium size) and Swetha (big size).
Animal Sciences		D: /	
Name of the animal	- U	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 - Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat the same dose after 7 days. - Proper light is to be provided for layers.
			- No light for grower groups.
		Vaccination for Fowl	- Start keeping new batch chicks in case of layer variety.
		pox	-Vaccine has to be given for Fowl pox
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
Pig	All age	Management	- Keep sheds dry.
	groups	Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
	age (as and when	Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
	required)	Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow- out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime @ 25-30kg/ ha every month or 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, 10000-12000 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	115		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
	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 ha pond.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 22nd 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 23rd to 27th September, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (18th to 21st September, 2015)

During last four days skiy was partly cloudy to mainly cloudy but mainly clear during morning hours of 18^{th} Sept. **77.9** rainfall was recorded during last four days. Maximum temperature range observed was 27.0-32.8 °C, range of minimum temperature observed was 19.6-22.4 °C, mean relative humidity observed in morning and afternoon were 86.0 % and 77.75 % respectively. The average wind speed range was 2.8-4.9 km/hr.

Weather forecast for next five days of Churachandpur (23rd to 27th September, 2015)

There may be light to moderate rain during next five days but heavy rainfall at isolated places during 24th and 25th Sept. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 26.0 – 28.0 °C & minimum temp. 16.0 – 18.0 °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 south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		-1	
			ng of insecticides or pesticides. Insecticides and pesticides must not be
	ing. Farmers are advis	ed to add stickers @	5ml/ pump if it rains with less duration of intervals.
Kharif Rice			- Maintain water depth of 5cm in the rice field.
	Flowering	Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of
			water.
		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 Lambdacyhothrin @ 15ml/ 15 litre of
			water (at least three pumps per sangam).
Soybean/ Groundnut	Fruiting/ Pegging		Keep the plot clean and weed free.
		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	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or
		caterpillars	spray Dichlorovos 76 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
TT -1 -1 - G			grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			A = 1-20 l- DAD = 110 l- MOD = = = = l-=1 l-= C-=i======
French Bean, Broad bean & Pea	Land preparation		Apply 28 kg DAP and 10 kg MOP per sangam as basal dose. Sowing may be done. Semi-shed area is preferred for sowing broad bean. 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		Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases.
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.



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



Cabbage/ Cauliflower/ Tomato	Nursery Prepara	ation	 Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. Select fertile 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. Recommended varieties: Cabbage: Rareball. Cauliflower: White flash (medium size) and Swetha (big size).
Animal Sciences Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat the same dose after 7 days Proper light is to be provided for layers No light for grower groups Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl	-Vaccine has to be given for Fowl pox
Sheep/ Goat	Above 3 months of age	Vaccination Deworming	 - Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs). - Give Ranizole suspension @ 3ml/ 10 kg body weight
Pig	All age groups	Management Deworming	- Keep sheds dry. Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
	age (as and when required)	Ectoparasitic infestation Black Quarter/ Black leg disease	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow- out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month or 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, 10000-12000 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.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 22nd 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 23rd to 27th September, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (18th to 21st September, 2015)

During last four days skiy was partly cloudy to mainly cloudy but mainly clear during morning hours of 18^{th} Sept. **77.9** rainfall was recorded during last four days. Maximum temperature range observed was 27.0-32.8 °C, range of minimum temperature observed was 19.6-22.4 °C, mean relative humidity observed in morning and afternoon were 86.0 % and 77.75 % respectively. The average wind speed range was 2.8-4.9 km/hr.

Weather forecast for next five days of Imphal - East (23rd to 27th September, 2015)

There may be light to moderate rain during next five days but heavy rainfall at isolated places during 24th and 25th Sept. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 27.0 – 30.0 °C & minimum temp. 19.0 – 21.0 °C. Relative humidity may reach upto 100 % (max RH) & 74 % (min RH). The average wind speed may be 0-2 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	1	-	
			ng of insecticides or pesticides. Insecticides and pesticides must not be 2 5ml/ pump if it rains with less duration of intervals.
Kharif Rice	Flowering		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		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 Lambdacyhothrin @ 15ml/ 15 litre of
Soybean/ Groundnut	Fruiting/ Pegging		water (at least three pumps per sangam). Keep the plot clean and weed free.
Soybean/ Grounding	Fruiting/ regging	Desert	
		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	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or
		caterpillars	spray Dichlorovos 76 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	T		
French Bean,	Land preparation		Apply 28 kg DAP and 10 kg MOP per sangam as basal dose. Sowing may be done. Semi-shed area is preferred for sowing broad bean.
Broad bean & Pea			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		Raise nursery. Land preparation for transplanting the nursery may be
			started depending upon the field condition. Prepared beds must be exposed
			to sun for at least 10-15 days before sowing. Select varieties having
			duration of 100-110 days. Apply Captan 50 WP after final land preparation
			as preventive measures against soil borne diseases.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @
	development		2g/lit water.



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



Cabbage/ Cauliflower/	Nursery Prepara	ation	- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. For transplanting 1 sangam area 75g seed for hybrid
Tomato			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.
			Recommended varieties: Cabbage: Rareball. Cauliflower: White flash (medium size) and Swetha (big size).
Animal Sciences			Caumiower. white mash (medium size) and swema (big size).
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 - Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat the same dose after 7 days. - Proper light is to be provided for layers. - No light for grower groups.
		Vaccination for Fowl	- Start keeping new batch chicks in case of layer varietyVaccine has to be given for Fowl pox
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
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	Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
	required)	Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow- out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime @ 25-30kg/ ha every month or 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, 10000-12000 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.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 22nd 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 23rd to 27th September, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (18th to 21st September, 2015)

During last four days skiy was partly cloudy to mainly cloudy but mainly clear during morning hours of $18^{\rm th}$ Sept. **77.9** rainfall was recorded during last four days. Maximum temperature range observed was 27.0-32.8 $^{\rm o}{\rm C}$, range of minimum temperature observed was 19.6-22.4 $^{\rm o}{\rm C}$, mean relative humidity observed in morning and afternoon were 86.0% and 77.75% respectively. The average wind speed range was 2.8-4.9 km/hr.

Weather forecast for next five days of Imphal - West (23rd to 27th September, 2015)

There may be light to moderate rain during next five days but heavy rainfall at isolated places during 24th and 25th Sept. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 27.0 – 30.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach upto 100 % (max RH) & 80 % (min RH). The average wind speed may be 0-2 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	1	-	
			ng of insecticides or pesticides. Insecticides and pesticides must not be 2 5ml/ pump if it rains with less duration of intervals.
Kharif Rice	Flowering		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		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 Lambdacyhothrin @ 15ml/ 15 litre of
Soybean/ Groundnut	Fruiting/ Pegging		water (at least three pumps per sangam). Keep the plot clean and weed free.
Soybean/ Grounding	Fruiting/ regging	Desert	
		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	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or
		caterpillars	spray Dichlorovos 76 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	T		
French Bean,	Land preparation		Apply 28 kg DAP and 10 kg MOP per sangam as basal dose. Sowing may be done. Semi-shed area is preferred for sowing broad bean.
Broad bean & Pea			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		Raise nursery. Land preparation for transplanting the nursery may be
			started depending upon the field condition. Prepared beds must be exposed
			to sun for at least 10-15 days before sowing. Select varieties having
			duration of 100-110 days. Apply Captan 50 WP after final land preparation
			as preventive measures against soil borne diseases.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @
	development		2g/lit water.



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Cabbage/ Cauliflower/ Tomato	Nursery Prepara	ation	 - Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. - Select fertile 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. Recommended varieties: Cabbage: Rareball. Cauliflower: White flash (medium size) and Swetha (big size).
Animal Sciences Name of the animal	C	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age	Care & management	- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once
Turkey/ Duck)	groups	Care & management	 Deworm with Arbendazore inquite with 100 birds once only and repeat the same dose after 7 days. Proper light is to be provided for layers. No light for grower groups. Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl	-Vaccine has to be given for Fowl pox
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
Pig	All age	Management	- Keep sheds dry.
	groups	Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
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	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.