

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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 17th November, 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 18th to 22nd November, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th November, 2015)

During last four days sky was mainly clear to partly cloudy but foggy during morning hours of 16^{th} Nov, 2015. **No** rainfall was recorded during last four days. Maximum temperature range observed was 25.1-26.2 °C, range of minimum temperature observed was 10.9-11.9 °C, mean relative humidity observed in morning and afternoon were 85.75 % and 53.75 % respectively. The average wind speed range was 2.0-2.9 km/hr.

Weather forecast for next five days of Bishnupur (18th to 22nd November, 2015)

There may be light rain on Wednesday and Thursday. Sky will remain cloudy on Wednesday and Thursday followed by mainly clear to partly cloudy with maximum temp. of $22.0-25.0~^{\circ}\text{C}$ & minimum temp. $7.0-12.0~^{\circ}\text{C}$. Relative humidity may reach upto 100~% (max RH) & 69 % (min RH). The average wind speed may be 2~km/hr during next five days. The Wind direction may be south-easterly to easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		1	
Kharif Rice	Harvesting and post- harvesting		 Harvest rice if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Sowing to early vegetative		 After harvesting of rice, zero tillage rape seed may be sown (seed rate is 10-12 kg/ha) when soil in the field is soft at 30 cm row spacing. Recommended variety – M-27. After 10-15 days of sowing plant to plant distance may be maintained by thinning.
Field Pea	Land preparation to sowing and early vegetative		 - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Lentil	Sowing to early vegetative		- After harvesting of rice, lentil seed may be sown.
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			

* In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.

to maintain the soi	i temperature.	
Dolichos bean	Flowering to	- As the temperature is going down, aphid population will be more.
	fruiting	- If in flowering to fruiting stage, harvest mature fruits and spray neem
		based pesticides or spray Cypermethrin @ 2 ml/ litre of water.
		- Earthing up of soil, followed by top dressing with 20g DAP + 5g MOP +
		3kg FYM will helpful for fruiting.
Garlic	Planting	- Garlic bulblets may be planted in prepared beds.
Onion	Transplanting to	- Onion seedlings may be transplanted.
	vegetative	
Cabbage	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
		basal dose followed by 46 kg Urea in two splits dose after 20-40 days of
		transplanting.
Cauliflower	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
	_	basal dose followed by 50 kg urea in two splits dose during 20-40 days



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			after transplanting for main season crops.
Tree Bean	Pre-bearing ar bearing trees (flowering to fruiting)	nd	 Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to prebearing and bearing trees before flowering for better yield. Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences Name of the anima	l 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 with half dose after 7 days. Also, deworm at every 3 weeks interval.
		Ranikhet disease	- Vaccinate against Ranikhet disease using Lasota strain vaccine and R ₂ B vaccine.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox.
Sheep/ Goat	Above 3 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.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		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/ growout		Pond and water	Remove aquatic weeds. 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	 Sampling of fish for growth, diseased fish should be done regularly by netting. Partial harvesting may be done to reduce fish population as the water level is going down.



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Chandel

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Weather forecast for next five days of Chandel (18th to 22nd November, 2015)

There may be light rain on Wednesday and Thursday. Sky will remain cloudy on Wednesday and Thursday followed by mainly clear to partly cloudy with maximum temp. of 20.0 -23.0 °C & minimum temp. 5.0 – 11.0 °C. Relative humidity may reach upto 99 % (max RH) & 69 % (min RH). The average wind speed may be 2 km/ hr during next five days. The Wind direction may be south-easterly to easterly during next

Stage	Pest and disease	Agro-meteorological advisories
Harvesting and post- harvesting		 - Harvest rice if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Sowing to early vegetative		 After harvesting of rice, zero tillage rape seed may be sown (seed rate is 10-12 kg/ha) when soil in the field is soft at 30 cm row spacing. Recommended variety – M-27. After 10-15 days of sowing plant to plant distance may be maintained by thinning.
Land preparation to sowing and early vegetative		 Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Sowing to early vegetative		- After harvesting of rice, lentil seed may be sown.
		- 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.
	Harvesting and post- harvesting Sowing to early vegetative Land preparation to sowing and early vegetative Sowing to early	Harvesting and post- harvesting Sowing to early vegetative Land preparation to sowing and early vegetative Sowing to early

- * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature

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Dolichos bean	Flowering to	- As the temperature is going down, aphid population will be more.
	fruiting	- If in flowering to fruiting stage, harvest mature fruits and spray neem
		based pesticides or spray Cypermethrin @ 2 ml/ litre of water.
		- Earthing up of soil, followed by top dressing with 20g DAP + 5g MOP +
		3kg FYM will helpful for fruiting.
Garlic	Planting	- Garlic bulblets may be planted in prepared beds.
Onion	Transplanting to	- Onion seedlings may be transplanted.
	vegetative	
Cabbage	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
		basal dose followed by 46 kg Urea in two splits dose after 20-40 days of
		transplanting.
Cauliflower	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
	_	basal dose followed by 50 kg urea in two splits dose during 20-40 days



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			after transplanting for main season crops.
Tree Bean Pre-bearing and bearing trees (flowering to fruiting)		nd	 Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to prebearing and bearing trees before flowering for better yield. Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences Name of the anima	l 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 with half dose after 7 days. Also, deworm at every 3 weeks interval.
		Ranikhet disease	- Vaccinate against Ranikhet disease using Lasota strain vaccine and R ₂ B vaccine.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox.
Sheep/ Goat Above 3 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.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		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	Remove aquatic weeds. 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	 Sampling of fish for growth, diseased fish should be done regularly by netting. Partial harvesting may be done to reduce fish population as the water level is going down.



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Churachandpur

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During last four days sky was mainly clear to partly cloudy but foggy during morning hours of 16th Nov, 2015. No rainfall was recorded during last four days. Maximum temperature range observed was 25.1 - 26.2 °C, range of minimum temperature observed was 10.9 - 11.9 °C, mean relative humidity observed in morning and afternoon were 85.75 % and 53.75 % respectively. The average wind speed range was 2.0 - 2.9 km/hr.

Weather forecast for next five days of Churachandpur (18th to 22nd November, 2015)

There may be light rain on Wednesday and Thursday. Sky will remain cloudy on Wednesday and Thursday followed by mainly clear to partly cloudy with maximum temp. of 23.0 -26.0 °C & minimum temp. 8.0 – 13.0 °C. Relative humidity may reach upto 100 % (max RH) & 59 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be south-easterly to easterly during next five days.

Stage	Pest and disease	Agro-meteorological advisories
Harvesting and post- harvesting		 - Harvest rice if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Sowing to early vegetative		 After harvesting of rice, zero tillage rape seed may be sown (seed rate is 10-12 kg/ha) when soil in the field is soft at 30 cm row spacing. Recommended variety – M-27. After 10-15 days of sowing plant to plant distance may be maintained by thinning.
Land preparation to sowing and early vegetative		 - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Sowing to early vegetative		- After harvesting of rice, lentil seed may be sown.
		- 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.
	Harvesting and post- harvesting Sowing to early vegetative Land preparation to sowing and early vegetative Sowing to early	Harvesting and post- harvesting Sowing to early vegetative Land preparation to sowing and early vegetative Sowing to early

- * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature

to maintain the soi	i temperature.	
Dolichos bean	Flowering to	- As the temperature is going down, aphid population will be more.
	fruiting	- If in flowering to fruiting stage, harvest mature fruits and spray neem
		based pesticides or spray Cypermethrin @ 2 ml/ litre of water.
		- Earthing up of soil, followed by top dressing with 20g DAP + 5g MOP +
		3kg FYM will helpful for fruiting.
Garlic	Planting	- Garlic bulblets may be planted in prepared beds.
Onion	Transplanting to	- Onion seedlings may be transplanted.
	vegetative	
Cabbage	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
		basal dose followed by 46 kg Urea in two splits dose after 20-40 days of
		transplanting.
Cauliflower	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
	_	basal dose followed by 50 kg urea in two splits dose during 20-40 days



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			after transplanting for main season crops.
Pre-bearing and bearing trees (flowering to fruiting)		nd	 Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to prebearing and bearing trees before flowering for better yield. Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences Name of the anima	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 with half dose after 7 days. Also, deworm at every 3 weeks interval.
		Ranikhet disease	- Vaccinate against Ranikhet disease using Lasota strain vaccine and R ₂ B vaccine.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox.
Sheep/ Goat Above 3 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.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		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	Remove aquatic weeds. 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	 Sampling of fish for growth, diseased fish should be done regularly by netting. Partial harvesting may be done to reduce fish population as the water level is going down.



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Imphal-East

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Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th November, 2015)

During last four days sky was mainly clear to partly cloudy but foggy during morning hours of 16^{th} Nov, 2015. **No** rainfall was recorded during last four days. Maximum temperature range observed was 25.1-26.2 °C, range of minimum temperature observed was 10.9-11.9 °C, mean relative humidity observed in morning and afternoon were 85.75 % and 53.75 % respectively. The average wind speed range was 2.0-2.9 km/hr.

Weather forecast for next five days of Imphal-East (18th to 22nd November, 2015)

There may be light rain on Wednesday and Thursday. Sky will remain cloudy on Wednesday and Thursday followed by mainly clear to partly cloudy with maximum temp. of $25.0-27.0~^{\circ}\text{C}$ & minimum temp. $7.0-10.0~^{\circ}\text{C}$. Relative humidity may reach upto 100~% (max RH) & 75~% (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be south-easterly to easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	1	1	
Kharif Rice	Harvesting and post- harvesting		 - Harvest rice if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Sowing to early vegetative		 - After harvesting of rice, zero tillage rape seed may be sown (seed rate is 10-12 kg/ha) when soil in the field is soft at 30 cm row spacing. - Recommended variety – M-27. - After 10-15 days of sowing plant to plant distance may be maintained by thinning.
Field Pea	Land preparation to sowing and early vegetative		 - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Lentil	Sowing to early vegetative		- After harvesting of rice, lentil seed may be sown.
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		•	· · · · · · · · · · · · · · · · · · ·

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Dolichos bean	Flowering to	- As the temperature is going down, aphid population will be more.
	fruiting	- If in flowering to fruiting stage, harvest mature fruits and spray neem
		based pesticides or spray Cypermethrin @ 2 ml/ litre of water.
		- Earthing up of soil, followed by top dressing with 20g DAP + 5g MOP +
		3kg FYM will helpful for fruiting.
Garlic	Planting	- Garlic bulblets may be planted in prepared beds.
Onion	Transplanting to	- Onion seedlings may be transplanted.
	vegetative	
Cabbage	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
		basal dose followed by 46 kg Urea in two splits dose after 20-40 days of
		transplanting.
Cauliflower	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
	_	basal dose followed by 50 kg urea in two splits dose during 20-40 days



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Free Bean Pre-bearing and bearing trees (flowering to fruiting)		nd	 Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to prebearing and bearing trees before flowering for better yield. Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
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Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat with half dose after 7 days. Also, deworm at every 3 weeks interval.
		Ranikhet disease	- Vaccinate against Ranikhet disease using Lasota strain vaccine and R ₂ B vaccine.
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Sheep/ Goat Above 3 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.
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Cattle / Buffalo/ Mithun	Above 3 months of age (as and	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		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	Remove aquatic weeds. 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	 Sampling of fish for growth, diseased fish should be done regularly by netting. Partial harvesting may be done to reduce fish population as the water level is going down.



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Imphal-West

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Kharif Rice	Harvesting and post- harvesting		 - Harvest rice if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Sowing to early vegetative		 After harvesting of rice, zero tillage rape seed may be sown (seed rate is 10-12 kg/ ha) when soil in the field is soft at 30 cm row spacing. Recommended variety – M-27. After 10-15 days of sowing plant to plant distance may be maintained by thinning.
Field Pea	Land preparation to sowing and early vegetative		 - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Lentil	Sowing to early vegetative		- After harvesting of rice, lentil seed may be sown.
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.

- * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as

to maintain the soi	temperature.	
Dolichos bean	Flowering to	- As the temperature is going down, aphid population will be more.
	fruiting	- If in flowering to fruiting stage, harvest mature fruits and spray neem
		based pesticides or spray Cypermethrin @ 2 ml/ litre of water.
		- Earthing up of soil, followed by top dressing with 20g DAP + 5g MOP +
		3kg FYM will helpful for fruiting.
Garlic	Planting	- Garlic bulblets may be planted in prepared beds.
Onion	Transplanting to vegetative	- Onion seedlings may be transplanted.
Cabbage	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
		basal dose followed by 46 kg Urea in two splits dose after 20-40 days of
		transplanting.
Cauliflower	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
	_	basal dose followed by 50 kg urea in two splits dose during 20-40 days



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



"Gramin Krishi Mausam Seva"

			after transplanting for main season crops.
Tree Bean	Pre-bearing and bearing trees (flowering to fruiting)	nd	 Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to prebearing and bearing trees before flowering for better yield. Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences Name of the anima	l 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 with half dose after 7 days. Also, deworm at every 3 weeks interval.
		Ranikhet disease	- Vaccinate against Ranikhet disease using Lasota strain vaccine and R ₂ B vaccine.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox.
Sheep/ Goat Above 3 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.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		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/ groout		Pond and water	Remove aquatic weeds. 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	 Sampling of fish for growth, diseased fish should be done regularly by netting. Partial harvesting may be done to reduce fish population as the water level is going down.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 17th November, 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 18th to 22nd November, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th November, 2015)

During last four days sky was mainly clear to partly cloudy but foggy during morning hours of 16^{th} Nov, 2015. **No** rainfall was recorded during last four days. Maximum temperature range observed was 25.1-26.2 °C, range of minimum temperature observed was 10.9-11.9 °C, mean relative humidity observed in morning and afternoon were 85.75 % and 53.75 % respectively. The average wind speed range was 2.0-2.9 km/hr.

Weather forecast for next five days of Senapati (18th to 22nd November, 2015)

There may be light rain on Wednesday and Thursday. Sky will remain cloudy on Wednesday and Thursday followed by mainly clear to partly cloudy with maximum temp. of $19.0-23.0\,^{\rm o}{\rm C}$ & minimum temp. $4.0-8.0\,^{\rm o}{\rm C}$. Relative humidity may reach upto 99 % (max RH) & 71 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be south-easterly to easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	1	1	
Kharif Rice	Harvesting and post- harvesting		 - Harvest rice if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Sowing to early vegetative		 After harvesting of rice, zero tillage rape seed may be sown (seed rate is 10-12 kg/ha) when soil in the field is soft at 30 cm row spacing. Recommended variety – M-27. After 10-15 days of sowing plant to plant distance may be maintained by thinning.
Field Pea	Land preparation to sowing and early vegetative		 - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Lentil	Sowing to early vegetative		- After harvesting of rice, lentil seed may be sown.
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		•	-

* In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.

to maintain the soi	i temperature.	
Dolichos bean	Flowering to	- As the temperature is going down, aphid population will be more.
	fruiting	- If in flowering to fruiting stage, harvest mature fruits and spray neem
		based pesticides or spray Cypermethrin @ 2 ml/ litre of water.
		- Earthing up of soil, followed by top dressing with 20g DAP + 5g MOP +
		3kg FYM will helpful for fruiting.
Garlic	Planting	- Garlic bulblets may be planted in prepared beds.
Onion	Transplanting to	- Onion seedlings may be transplanted.
	vegetative	
Cabbage	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
		basal dose followed by 46 kg Urea in two splits dose after 20-40 days of
		transplanting.
Cauliflower	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
	_	basal dose followed by 50 kg urea in two splits dose during 20-40 days



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



"Gramin Krishi Mausam Seva"

			after transplanting for main season crops.
Free Bean Pre-bearing an bearing trees (flowering to fruiting)		nd	 Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to prebearing and bearing trees before flowering for better yield. Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences Name of the anima	l 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 with half dose after 7 days. Also, deworm at every 3 weeks interval.
		Ranikhet disease	- Vaccinate against Ranikhet disease using Lasota strain vaccine and R ₂ B vaccine.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox.
Sheep/ Goat Above 3 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.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		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/ grout		Pond and water	Remove aquatic weeds. 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	 Sampling of fish for growth, diseased fish should be done regularly by netting. Partial harvesting may be done to reduce fish population as the water level is going down.



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"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 17th November, 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 18th to 22nd November, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th November, 2015)

During last four days sky was mainly clear to partly cloudy but foggy during morning hours of 16th Nov, 2015. No rainfall was recorded during last four days. Maximum temperature range observed was 25.1 - 26.2 °C, range of minimum temperature observed was 10.9 - 11.9 °C, mean relative humidity observed in morning and afternoon were 85.75 % and 53.75 % respectively. The average wind speed range was 2.0 - 2.9 km/hr.

Weather forecast for next five days of Tamenglong (18th to 22nd November, 2015)

There may be light rain on Wednesday and Thursday. Sky will remain cloudy on Wednesday and Thursday followed by mainly clear to partly cloudy with maximum temp. of 22.0 -25.0 °C & minimum temp. 7.0 - 12.0 °C. Relative humidity may reach upto 99 % (max RH) & 63 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be south-easterly to easterly during next five days.

Stage	Pest and disease	Agro-meteorological advisories
-	1	
Harvesting and post- harvesting		 - Harvest rice if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Sowing to early vegetative		 After harvesting of rice, zero tillage rape seed may be sown (seed rate is 10-12 kg/ha) when soil in the field is soft at 30 cm row spacing. Recommended variety – M-27. After 10-15 days of sowing plant to plant distance may be maintained by thinning.
Land preparation to sowing and early vegetative		 - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Sowing to early vegetative		- After harvesting of rice, lentil seed may be sown.
		- 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.
	Harvesting and post- harvesting Sowing to early vegetative Land preparation to sowing and early vegetative Sowing to early	Harvesting and post- harvesting Sowing to early vegetative Land preparation to sowing and early vegetative Sowing to early

- * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as

to maintain the soi	temperature.	
Dolichos bean	Flowering to	- As the temperature is going down, aphid population will be more.
	fruiting	- If in flowering to fruiting stage, harvest mature fruits and spray neem
		based pesticides or spray Cypermethrin @ 2 ml/ litre of water.
		- Earthing up of soil, followed by top dressing with 20g DAP + 5g MOP +
		3kg FYM will helpful for fruiting.
Garlic	Planting	- Garlic bulblets may be planted in prepared beds.
Onion	Transplanting to vegetative	- Onion seedlings may be transplanted.
Cabbage	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
		basal dose followed by 46 kg Urea in two splits dose after 20-40 days of
		transplanting.
Cauliflower	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
	_	basal dose followed by 50 kg urea in two splits dose during 20-40 days



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"Gramin Krishi Mausam Seva"

			ofter transplanting for main season groups
Two Doc-	Dro booming on	ud.	after transplanting for main season crops.Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-
Tree Bean	Pre-bearing an	ıa	
	bearing trees (flowering to		bearing and bearing trees before flowering for better yield.
	fruiting)		- Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to
	nunng)		prevent Verticillium wilt.
			- 20g Carbofuran 3G/ plant may also be in-corporated in soil as
			prophylactic measure against bark borer/ termites.
Animal Sciences Name of the animal	l Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age	Care & management	- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once
Turkey/ Duck)	groups		only and repeat with half dose after 7 days. Also, deworm at every 3 weeks interval.
		Ranikhet disease	- Vaccinate against Ranikhet disease using Lasota strain vaccine and R ₂ E
			vaccine.
		Vaccination for Fowl	-Vaccine has to be given for Fowl pox.
		pox	
Sheep/ Goat	Above 3 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.
		Ectoparasites (skin	Add Butox @ 2ml/lit of water and brush with the solution twice every
		infestation)	fortnightly.
Cattle / Buffalo/	Above 3	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @
Mithun	months of		1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower
	age (as and		altitude.
	when	Ectoparasitic	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution
	required)	infestation	twice a week
	1 /	Black Quarter/ Black	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3
		leg disease	months
Fishery:		1 8	
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-	Pond and water	Remove aquatic weeds.
	out		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	- Sampling of fish for growth, diseased fish should be done regularly by
			netting.
			- Partial harvesting may be done to reduce fish population as the water
			level is going down.
			10.101 to Bound to time



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"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 17th November, 2015

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 18th to 22nd November, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th November, 2015)

During last four days sky was mainly clear to partly cloudy but foggy during morning hours of 16th Nov, 2015. No rainfall was recorded during last four days. Maximum temperature range observed was 25.1 - 26.2 °C, range of minimum temperature observed was 10.9 - 11.9 °C, mean relative humidity observed in morning and afternoon were 85.75 % and 53.75 % respectively. The average wind speed range was 2.0 - 2.9 km/hr.

Weather forecast for next five days of Thoubal (18th to 22nd November, 2015)

There may be light rain on Wednesday and Thursday. Sky will remain cloudy on Wednesday and Thursday followed by mainly clear to partly cloudy with maximum temp. of 21.0 -24.0 °C & minimum temp. 5.0 – 11.0 °C. Relative humidity may reach upto 100 % (max RH) & 76 % (min RH). The average wind speed may be 2 km/ hr during next five days. The Wind direction may be south-easterly to easterly during next

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		1	
Kharif Rice	Harvesting and post- harvesting		 - Harvest rice if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Sowing to early vegetative		 After harvesting of rice, zero tillage rape seed may be sown (seed rate is 10-12 kg/ha) when soil in the field is soft at 30 cm row spacing. Recommended variety – M-27. After 10-15 days of sowing plant to plant distance may be maintained by thinning.
Field Pea	Land preparation to sowing and early vegetative		 - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Lentil	Sowing to early vegetative		- After harvesting of rice, lentil seed may be sown.
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		•	

- * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature

to manitalii the soi	i temperature.	
Dolichos bean	Flowering to	- As the temperature is going down, aphid population will be more.
	fruiting	- If in flowering to fruiting stage, harvest mature fruits and spray neem
		based pesticides or spray Cypermethrin @ 2 ml/ litre of water.
		- Earthing up of soil, followed by top dressing with 20g DAP + 5g MOP +
		3kg FYM will helpful for fruiting.
Garlic	Planting	- Garlic bulblets may be planted in prepared beds.
Onion	Transplanting to	- Onion seedlings may be transplanted.
	vegetative	
Cabbage	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
		basal dose followed by 46 kg Urea in two splits dose after 20-40 days of
		transplanting.
Cauliflower	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
	_	basal dose followed by 50 kg urea in two splits dose during 20-40 days



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"Gramin Krishi Mausam Seva"

			after transplanting for main season crops.
Tree Bean Pre-bearing and bearing trees (flowering to fruiting)		ad	 Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to prebearing and bearing trees before flowering for better yield. Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences Name of the anima	l 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 with half dose after 7 days. Also, deworm at every 3 weeks interval.
		Ranikhet disease	- Vaccinate against Ranikhet disease using Lasota strain vaccine and R ₂ B vaccine.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox.
Sheep/ Goat Above 3 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.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		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/ gro out		Pond and water	Remove aquatic weeds. 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	 Sampling of fish for growth, diseased fish should be done regularly by netting. Partial harvesting may be done to reduce fish population as the water level is going down.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 17th November, 2015

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 18th to 22nd November, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th November, 2015)

During last four days sky was mainly clear to partly cloudy but foggy during morning hours of 16th Nov, 2015. No rainfall was recorded during last four days. Maximum temperature range observed was 25.1 - 26.2 °C, range of minimum temperature observed was 10.9 - 11.9 °C, mean relative humidity observed in morning and afternoon were 85.75 % and 53.75 % respectively. The average wind speed range was 2.0 - 2.9 km/hr.

Weather forecast for next five days of Ukhrul (18th to 22nd November, 2015)

There may be light rain on Wednesday and Thursday. Sky will remain cloudy on Wednesday and Thursday followed by mainly clear to partly cloudy with maximum temp. of 19.0 -23.0 °C & minimum temp. 4.0 – 8.0 °C. Relative humidity may reach upto 99 % (max RH) & 66 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be south-easterly to easterly during next five

Stage	Pest and disease	Agro-meteorological advisories
1		
Harvesting and post- harvesting		 - Harvest rice if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Sowing to early vegetative		 After harvesting of rice, zero tillage rape seed may be sown (seed rate is 10-12 kg/ha) when soil in the field is soft at 30 cm row spacing. Recommended variety – M-27. After 10-15 days of sowing plant to plant distance may be maintained by thinning.
Land preparation to sowing and early vegetative		 - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Sowing to early vegetative		- After harvesting of rice, lentil seed may be sown.
		- 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.
	Harvesting and post- harvesting Sowing to early vegetative Land preparation to sowing and early vegetative Sowing to early	Harvesting and post- harvesting Sowing to early vegetative Land preparation to sowing and early vegetative Sowing to early

- * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature

to maintain the soi	i temperature.	
Dolichos bean	Flowering to	- As the temperature is going down, aphid population will be more.
	fruiting	- If in flowering to fruiting stage, harvest mature fruits and spray neem
		based pesticides or spray Cypermethrin @ 2 ml/ litre of water.
		- Earthing up of soil, followed by top dressing with 20g DAP + 5g MOP +
		3kg FYM will helpful for fruiting.
Garlic	Planting	- Garlic bulblets may be planted in prepared beds.
Onion	Transplanting to	- Onion seedlings may be transplanted.
	vegetative	
Cabbage	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
		basal dose followed by 46 kg Urea in two splits dose after 20-40 days of
		transplanting.
Cauliflower	Vegetative	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
	_	basal dose followed by 50 kg urea in two splits dose during 20-40 days



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"Gramin Krishi Mausam Seva"

			after transplanting for main season crops.
Tree Bean	Pre-bearing are bearing trees (flowering to fruiting)	nd	 Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to prebearing and bearing trees before flowering for better yield. Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences Name of the anima	l 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 with half dose after 7 days. Also, deworm at every 3 weeks interval.
		Ranikhet disease	- Vaccinate against Ranikhet disease using Lasota strain vaccine and R ₂ B vaccine.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox.
Sheep/ Goat	Above 3 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.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		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	Remove aquatic weeds. 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	 Sampling of fish for growth, diseased fish should be done regularly by netting. Partial harvesting may be done to reduce fish population as the water level is going down.