

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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 1st January, 2016

Tamenglong

Animal Sciences

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 2nd to 6th January, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th to 31st December, 2015)

During last three days sky was mainly clear but foggy during morning hours of 29^{th} and 31^{st} Dec, also mainly cloudy during afternoon hours of 31^{st} Dec. **No** rainfall was recorded during last three days. Maximum temperature range observed was 21.7-23.4 °C, range of minimum temperature observed was 3.0-5.1 °C, mean relative humidity observed in morning and afternoon were 91.33 % and 46.0 % respectively. The average wind speed range was 1.0-1.4 km/hr.

Weather forecast for next five days of Tamenglong (2nd to 6th January, 2016)

There may be no rain during next five days. Sky will remain mainly clear with maximum temp. of $23.0-25.0\,^{\circ}\text{C}$ & minimum temp. $4.0-6.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (max RH) & $38\,\%$ (min RH). The average wind speed may be $3\text{-}4\,\text{km/hr}$ during next five days. The Wind direction may be north-easterly to south easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	-		
Rabi Maize	Early vegetative		- Light irrigation may be given to keep soil moist if the soil is dry.
Rapeseed/ Mustard	Vegetative		 If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status. Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Field Pea/ Lentil	Vegetative		- Light watering during morning hours may be done if irrigation facility is available.
		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.
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			
Mango	Bearing trees		After pruning of dried twigs and branches, apply 425 g Urea, 275 g SSP and 280 g MOP along with 8 kg FYM. Mulching may be done to conserve soil moisture.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		 Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. Give light watering during morning and evening hours till plants are established. Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		 Tomato nurseries should be raised under low cost polyhouse as the temperature is very low in open field. Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.



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"Gramin Krishi Mausam Seva"

Name of the anima	l Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 - Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area. - Hang heisian cloths aroung the shed to avoid cold during night time.
			- Add extra mineral or electrolyte in drinking water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age	Management for newly	- As there is likely to have sudden drop in minimum temperature,
	groups	born piglets	provide warm/ artificial heat with litter or bedding materials.
		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 and apply Himax ointment if wounds are found.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and	Black Quarter/ Black leg disease/ FMD/HS &Enterotoxaemia	If not vaccinated earlier, vaccinate against B.Q, FMD & H.S. vaccine for all the animals of above 3 months
	when required)	Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week and apply Himax ointment if wounds are found.
		Acidosis & Diarrhoea	Provide green fodder in limited quantity.
		Deworming	Give Rafoxanide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Fodder cultivation	Cultivate Bersum/ oats (var. P/Giant/ J-4, etc.) for fodder.
Fishery:	·		
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 @ 3 % body weight per day.
		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 low.



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"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 1st January, 2016

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 2nd to 6th January, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(29^{th}$ to 31^{st} December, 2015)

During last three days sky was mainly clear but foggy during morning hours of 29^{th} and 31^{st} Dec, also mainly cloudy during afternoon hours of 31^{st} Dec. **No** rainfall was recorded during last three days. Maximum temperature range observed was 21.7-23.4 °C, range of minimum temperature observed was 3.0-5.1 °C, mean relative humidity observed in morning and afternoon were 91.33 % and 46.0 % respectively. The average wind speed range was 1.0-1.4 km/hr.

Weather forecast for next five days of Thoubal (2nd to 6th January, 2016)

There may be no rain during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. of $23.0-25.0\,^{\circ}\text{C}$ & minimum temp. $4.0-6.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (max RH) & 46 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be north-easterly to south easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		1	'
Rabi Maize	Early vegetative		- Light irrigation may be given to keep soil moist if the soil is dry.
Rapeseed/ Mustard	Vegetative		 If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status. Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Field Pea/ Lentil	Vegetative		- Light watering during morning hours may be done if irrigation facility is available.
		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.
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	· · · · · · · · · · · · · · · · · · ·
Mango	Bearing trees		After pruning of dried twigs and branches, apply 425 g Urea, 275 g SSP and 280 g MOP along with 8 kg FYM. Mulching may be done to conserve soil moisture.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		 Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. Give light watering during morning and evening hours till plants are established. Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato Animal Sciences	Nursery raising to transplanting		 Tomato nurseries should be raised under low cost polyhouse as the temperature is very low in open field. Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.



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



"Gramin Krishi Mausam Seva"

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area.
			 Hang heisian cloths aroung the shed to avoid cold during night time. Add extra mineral or electrolyte in drinking water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age	Management for newly	- As there is likely to have sudden drop in minimum temperature,
	groups	born piglets	provide warm/ artificial heat with litter or bedding materials.
		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 and apply Himax ointment if wounds are found.
Cattle / Buffalo/ Mithun	Above 3 months of	Black Quarter/ Black leg disease/ FMD/HS	If not vaccinated earlier, vaccinate against B.Q, FMD & H.S. vaccine for all the animals of above 3 months
	age (as and	&Enterotoxaemia	
	when	Ectoparasitic	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution
	required)	infestation	twice a week and apply Himax ointment if wounds are found.
		Acidosis & Diarrhoea	Provide green fodder in limited quantity.
		Deworming	Give Rafoxanide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Fodder cultivation	Cultivate Bersum/ oats (var. P/Giant/ J-4, etc.) for fodder.
Fishery:			
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 @ 3 % body weight per day.
		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 low.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 1st January, 2016

Ukhrul

Animal Sciences

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 2nd to 6th January, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th to 31st December, 2015)

During last three days sky was mainly clear but foggy during morning hours of 29^{th} and 31^{st} Dec, also mainly cloudy during afternoon hours of 31^{st} Dec. **No** rainfall was recorded during last three days. Maximum temperature range observed was 21.7-23.4 °C, range of minimum temperature observed was 3.0-5.1 °C, mean relative humidity observed in morning and afternoon were 91.33 % and 46.0 % respectively. The average wind speed range was 1.0-1.4 km/hr.

Weather forecast for next five days of Ukhrul (2nd to 6th January, 2016)

There may be no rain during next five days. Sky will remain mainly clear with maximum temp. of $20.0-23.0\,^{\circ}\text{C}$ & minimum temp. $2.0-4.0\,^{\circ}\text{C}$. Relative humidity may reach upto 99 % (max RH) & 46 % (min RH). The average wind speed may be 3-4 km/ hr during next five days. The Wind direction may be south easterly to south westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	-		
Rabi Maize	Early vegetative		- Light irrigation may be given to keep soil moist if the soil is dry.
Rapeseed/ Mustard	Vegetative		 If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status. Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Field Pea/ Lentil	Vegetative		- Light watering during morning hours may be done if irrigation facility is available.
		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.
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			
Mango	Bearing trees		After pruning of dried twigs and branches, apply 425 g Urea, 275 g SSP and 280 g MOP along with 8 kg FYM. Mulching may be done to conserve soil moisture.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		 Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. Give light watering during morning and evening hours till plants are established. Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		 Tomato nurseries should be raised under low cost polyhouse as the temperature is very low in open field. Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.



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"Gramin Krishi Mausam Seva"

Name of the anima	l Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area.
			 - Hang heisian cloths aroung the shed to avoid cold during night time. - Add extra mineral or electrolyte in drinking water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age	Management for newly	•
	groups	born piglets	provide warm/ artificial heat with litter or bedding materials.
		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 and apply Himax ointment if wounds are found.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and	Black Quarter/ Black leg disease/ FMD/HS &Enterotoxaemia	If not vaccinated earlier, vaccinate against B.Q, FMD & H.S. vaccine for all the animals of above 3 months
	when	Ectoparasitic	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution
	required)	infestation	twice a week and apply Himax ointment if wounds are found.
		Acidosis & Diarrhoea	Provide green fodder in limited quantity.
		Deworming	Give Rafoxanide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Fodder cultivation	Cultivate Bersum/ oats (var. P/Giant/ J-4, etc.) for fodder.
Fishery:			
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 @ 3 % body weight per day.
		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 low.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 1st January, 2016

Bishnupur

Animal Sciences

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 2nd to 6th January, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th to 31st December, 2015)

During last three days sky was mainly clear but foggy during morning hours of 29^{th} and 31^{st} Dec, also mainly cloudy during afternoon hours of 31^{st} Dec. No rainfall was recorded during last three days. Maximum temperature range observed was $21.7-23.4~^{\circ}\text{C}$, range of minimum temperature observed was $3.0-5.1~^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 91.33~% and 46.0~% respectively. The average wind speed range was 1.0-1.4~km/hr.

Weather forecast for next five days of Bishnupur $(2^{nd} \text{ to } 6^{th} \text{ January}, 2016)$

There may be no rain during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. of $23.0-25.0\,^{\circ}\text{C}$ & minimum temp. $4.0-5.0\,^{\circ}\text{C}$. Relative humidity may reach upto 100 % (max RH) & 42 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be north-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	1	1	'
Rabi Maize	Early vegetative		- Light irrigation may be given to keep soil moist if the soil is dry.
Rapeseed/ Mustard	Vegetative		 If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status. Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Field Pea/ Lentil	Vegetative		- Light watering during morning hours may be done if irrigation facility is available.
		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.
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	•		
Mango	Bearing trees		After pruning of dried twigs and branches, apply 425 g Urea, 275 g SSP and 280 g MOP along with 8 kg FYM. Mulching may be done to conserve soil moisture.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		 Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. Give light watering during morning and evening hours till plants are established. Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		 Tomato nurseries should be raised under low cost polyhouse as the temperature is very low in open field. Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.



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"Gramin Krishi Mausam Seva"

Name of the anima	l Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area.
			 - Hang heisian cloths aroung the shed to avoid cold during night time. - Add extra mineral or electrolyte in drinking water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age	Management for newly	· ·
	groups	born piglets	provide warm/ artificial heat with litter or bedding materials.
		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 and apply Himax ointment if wounds are found.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and	Black Quarter/ Black leg disease/ FMD/HS &Enterotoxaemia	If not vaccinated earlier, vaccinate against B.Q, FMD & H.S. vaccine for all the animals of above 3 months
	when	Ectoparasitic	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution
	required)	infestation	twice a week and apply Himax ointment if wounds are found.
		Acidosis & Diarrhoea	Provide green fodder in limited quantity.
		Deworming	Give Rafoxanide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Fodder cultivation	Cultivate Bersum/ oats (var. P/Giant/ J-4, etc.) for fodder.
Fishery:	"	-	
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 @ 3 % body weight per day.
		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 low.



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"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 1st January, 2016

Chandel

Animal Sciences

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 2nd to 6th January, 2016 as below:

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Weather forecast for next five days of Chandel (2nd to 6th January, 2016)

There may be no rain during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. of $23.0-25.0\,^{\circ}\text{C}$ & minimum temp. $3.0-5.0\,^{\circ}\text{C}$. Relative humidity may reach upto 98 % (max RH) & 51 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be north-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	1	1	'
Rabi Maize	Early vegetative		- Light irrigation may be given to keep soil moist if the soil is dry.
Rapeseed/ Mustard	Vegetative		 If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status. Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Field Pea/ Lentil	Vegetative		- Light watering during morning hours may be done if irrigation facility is available.
		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.
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			
Mango	Bearing trees		After pruning of dried twigs and branches, apply 425 g Urea, 275 g SSP and 280 g MOP along with 8 kg FYM. Mulching may be done to conserve soil moisture.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		 Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. Give light watering during morning and evening hours till plants are established. Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		 Tomato nurseries should be raised under low cost polyhouse as the temperature is very low in open field. Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.



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



"Gramin Krishi Mausam Seva"

Name of the anima	l Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area.
			 - Hang heisian cloths aroung the shed to avoid cold during night time. - Add extra mineral or electrolyte in drinking water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age	Management for newly	•
	groups	born piglets	provide warm/ artificial heat with litter or bedding materials.
		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 and apply Himax ointment if wounds are found.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and	Black Quarter/ Black leg disease/ FMD/HS &Enterotoxaemia	If not vaccinated earlier, vaccinate against B.Q, FMD & H.S. vaccine for all the animals of above 3 months
	when	Ectoparasitic	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution
	required)	infestation	twice a week and apply Himax ointment if wounds are found.
		Acidosis & Diarrhoea	Provide green fodder in limited quantity.
		Deworming	Give Rafoxanide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Fodder cultivation	Cultivate Bersum/ oats (var. P/Giant/ J-4, etc.) for fodder.
Fishery:			
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 @ 3 % body weight per day.
		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 low.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 1st January, 2016

Churachandpur

Animal Sciences

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 2nd to 6th January, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th to 31st December, 2015)

During last three days sky was mainly clear but foggy during morning hours of 29^{th} and 31^{st} Dec, also mainly cloudy during afternoon hours of 31^{st} Dec. **No** rainfall was recorded during last three days. Maximum temperature range observed was 21.7-23.4 °C, range of minimum temperature observed was 3.0-5.1 °C, mean relative humidity observed in morning and afternoon were 91.33 % and 46.0 % respectively. The average wind speed range was 1.0-1.4 km/hr.

Weather forecast for next five days of Churachandpur (2nd to 6th January, 2016)

There may be no rain during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. of $22.0-25.0\,^{\circ}\text{C}$ & minimum temp. $3.0-5.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (max RH) & 43 % (min RH). The average wind speed may be 3-4 km/ hr during next five days. The Wind direction may be north-easterly to south easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	-		
Rabi Maize	Early vegetative		- Light irrigation may be given to keep soil moist if the soil is dry.
Rapeseed/ Mustard	Vegetative		 If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status. Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Field Pea/ Lentil	Vegetative		- Light watering during morning hours may be done if irrigation facility is available.
		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.
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			7 0
Mango	Bearing trees		After pruning of dried twigs and branches, apply 425 g Urea, 275 g SSP and 280 g MOP along with 8 kg FYM. Mulching may be done to conserve soil moisture.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		 Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. Give light watering during morning and evening hours till plants are established. Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		 Tomato nurseries should be raised under low cost polyhouse as the temperature is very low in open field. Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.



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



"Gramin Krishi Mausam Seva"

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area.
			 - Hang heisian cloths aroung the shed to avoid cold during night time. - Add extra mineral or electrolyte in drinking water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age	Management for newly	
	groups	born piglets	provide warm/ artificial heat with litter or bedding materials.
		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 and apply Himax ointment if wounds are found.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and	Black Quarter/ Black leg disease/ FMD/HS &Enterotoxaemia	If not vaccinated earlier, vaccinate against B.Q, FMD & H.S. vaccine for all the animals of above 3 months
	when	Ectoparasitic	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution
	required)	infestation	twice a week and apply Himax ointment if wounds are found.
		Acidosis & Diarrhoea	Provide green fodder in limited quantity.
		Deworming	Give Rafoxanide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Fodder cultivation	Cultivate Bersum/ oats (var. P/Giant/ J-4, etc.) for fodder.
Fishery:			
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
		- 1	litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 3 % body weight per day.
		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 low.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 1st January, 2016

Imphal-East

Animal Sciences

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 2nd to 6th January, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th to 31st December, 2015)

During last three days sky was mainly clear but foggy during morning hours of 29^{th} and 31^{st} Dec, also mainly cloudy during afternoon hours of 31^{st} Dec. **No** rainfall was recorded during last three days. Maximum temperature range observed was 21.7-23.4 °C, range of minimum temperature observed was 3.0-5.1 °C, mean relative humidity observed in morning and afternoon were 91.33 % and 46.0 % respectively. The average wind speed range was 1.0-1.4 km/hr.

Weather forecast for next five days of Imphal-East (2nd to 6th January, 2016)

There may be no rain during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. of $21.0-24.0\,^{\circ}\text{C}$ & minimum temp. $4.0-6.0\,^{\circ}\text{C}$. Relative humidity may reach upto 100 % (max RH) & 36 % (min RH). The average wind speed may be 3-4 km/ hr during next five days. The Wind direction may be north-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	-		
Rabi Maize	Early vegetative		- Light irrigation may be given to keep soil moist if the soil is dry.
Rapeseed/ Mustard	Vegetative		 If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status. Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Field Pea/ Lentil	Vegetative		- Light watering during morning hours may be done if irrigation facility is available.
		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.
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.
Mango	Bearing trees		After pruning of dried twigs and branches, apply 425 g Urea, 275 g SSP and 280 g MOP along with 8 kg FYM. Mulching may be done to conserve soil moisture.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		 Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. Give light watering during morning and evening hours till plants are established. Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		 Tomato nurseries should be raised under low cost polyhouse as the temperature is very low in open field. Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.



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



"Gramin Krishi Mausam Seva"

Name of the anima	l Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area.
			 Hang heisian cloths aroung the shed to avoid cold during night time. Add extra mineral or electrolyte in drinking water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age	Management for newly	- As there is likely to have sudden drop in minimum temperature,
	groups	born piglets	provide warm/ artificial heat with litter or bedding materials.
		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 and apply Himax ointment if wounds are found.
Cattle / Buffalo/	Above 3	Black Quarter/ Black	If not vaccinated earlier, vaccinate against B.Q, FMD & H.S. vaccine for
Mithun	months of	leg disease/ FMD/HS	all the animals of above 3 months
	age (as and	&Enterotoxaemia	
	when	Ectoparasitic	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution
	required)	infestation	twice a week and apply Himax ointment if wounds are found.
		Acidosis & Diarrhoea	Provide green fodder in limited quantity.
		Deworming	Give Rafoxanide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Fodder cultivation	Cultivate Bersum/ oats (var. P/Giant/ J-4, etc.) for fodder.
Fishery:			
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 @ 3 % body weight per day.
		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 low.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 1st January, 2016

Imphal-West

Animal Sciences

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 2nd to 6th January, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th to 31st December, 2015)

During last three days sky was mainly clear but foggy during morning hours of 29^{th} and 31^{st} Dec, also mainly cloudy during afternoon hours of 31^{st} Dec. **No** rainfall was recorded during last three days. Maximum temperature range observed was 21.7-23.4 °C, range of minimum temperature observed was 3.0-5.1 °C, mean relative humidity observed in morning and afternoon were 91.33 % and 46.0 % respectively. The average wind speed range was 1.0-1.4 km/hr.

Weather forecast for next five days of Imphal-West $(2^{nd} \text{ to } 6^{th} \text{ January}, 2016)$

There may be no rain during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. of $22.0-24.0\,^{\circ}\text{C}$ & minimum temp. $3.0-6.0\,^{\circ}\text{C}$. Relative humidity may reach upto 100 % (max RH) & 36 % (min RH). The average wind speed may be 4 km/ hr during next five days. The Wind direction may be north-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	-		
Rabi Maize	Early vegetative		- Light irrigation may be given to keep soil moist if the soil is dry.
Rapeseed/ Mustard	Vegetative		- If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
			- Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Field Pea/ Lentil	Vegetative		- Light watering during morning hours may be done if irrigation facility is available.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.
			- For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.
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			
Mango	Bearing trees		After pruning of dried twigs and branches, apply 425 g Urea, 275 g SSP and 280 g MOP along with 8 kg FYM. Mulching may be done to conserve soil moisture.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		 Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. Give light watering during morning and evening hours till plants are established. Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		 Tomato nurseries should be raised under low cost polyhouse as the temperature is very low in open field. Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.



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



"Gramin Krishi Mausam Seva"

Name of the anima	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq.
			ft. area.- Hang heisian cloths aroung the shed to avoid cold during night time.- Add extra mineral or electrolyte in drinking water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age groups	Management for newly born piglets	- As there is likely to have sudden drop in minimum temperature, provide warm/ artificial heat with litter or bedding materials.
		Deworming Ectoparasites (skin infestation)	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight. Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly and apply Himax ointment if wounds are found.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and	Black Quarter/ Black leg disease/ FMD/HS &Enterotoxaemia	If not vaccinated earlier, vaccinate against B.Q, FMD & H.S. vaccine for all the animals of above 3 months
	when required)	Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week and apply Himax ointment if wounds are found.
		Acidosis & Diarrhoea	Provide green fodder in limited quantity.
		Deworming	Give Rafoxanide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Fodder cultivation	Cultivate Bersum/ oats (var. P/Giant/ J-4, etc.) for fodder.
Fishery:		1	
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 @ 3 % body weight per day.
		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 low.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 1st January, 2016

Senapati

Animal Sciences

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 2nd to 6th January, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th to 31st December, 2015)

During last three days sky was mainly clear but foggy during morning hours of 29^{th} and 31^{st} Dec, also mainly cloudy during afternoon hours of 31^{st} Dec. **No** rainfall was recorded during last three days. Maximum temperature range observed was 21.7-23.4 °C, range of minimum temperature observed was 3.0-5.1 °C, mean relative humidity observed in morning and afternoon were 91.33 % and 46.0 % respectively. The average wind speed range was 1.0-1.4 km/hr.

Weather forecast for next five days of Senapati (2nd to 6th January, 2016)

There may be no rain during next five days. Sky will remain mainly clear with maximum temp. of $20.0-23.0\,^{\circ}\text{C}$ & minimum temp. $2.0-4.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (max RH) & 35 % (min RH). The average wind speed may be 4 km/ hr during next five days. The Wind direction may be north-easterly to south easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	-		
Rabi Maize	Early vegetative		- Light irrigation may be given to keep soil moist if the soil is dry.
Rapeseed/ Mustard	Vegetative		 If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status. Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Field Pea/ Lentil	Vegetative		- Light watering during morning hours may be done if irrigation facility is available.
		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.
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			
Mango	Bearing trees		After pruning of dried twigs and branches, apply 425 g Urea, 275 g SSP and 280 g MOP along with 8 kg FYM. Mulching may be done to conserve soil moisture.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		 Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. Give light watering during morning and evening hours till plants are established. Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		 Tomato nurseries should be raised under low cost polyhouse as the temperature is very low in open field. Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.



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



"Gramin Krishi Mausam Seva"

Name of the anima	l Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area. Hang heisian cloths aroung the shed to avoid cold during night time.
			- Add extra mineral or electrolyte in drinking water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age	Management for newly	- As there is likely to have sudden drop in minimum temperature,
	groups	born piglets	provide warm/ artificial heat with litter or bedding materials.
		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 and apply Himax ointment if wounds are found.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and	Black Quarter/ Black leg disease/ FMD/HS &Enterotoxaemia	If not vaccinated earlier, vaccinate against B.Q, FMD & H.S. vaccine for all the animals of above 3 months
	when	Ectoparasitic	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution
	required)	infestation	twice a week and apply Himax ointment if wounds are found.
	•	Acidosis & Diarrhoea	Provide green fodder in limited quantity.
		Deworming	Give Rafoxanide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Fodder cultivation	Cultivate Bersum/ oats (var. P/Giant/ J-4, etc.) for fodder.
Fishery:	1	ı	
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 @ 3 % body weight per day.
		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 low.