

Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 27th December, 2016

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 28th December, 2016 to 1st January, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(23^{rd}$ to 26^{th} December, 2016)

Observed foggy to mainly cloudy during morning hours and mainly clear to mainly cloudy sky during afternoon hours and no rainfall in the past three days. Maximum temperature range of 23.1 to 24.2 $^{\circ}$ C and a rise in Minimum temperature from 6.9 to 13.1 $^{\circ}$ C with mean relative humidity 92.75 % max and 50.75 % min was recorded in the past four days. The average wind speed range remained 3.3 to 4.1 km/hr.

Weather forecast for next five days of Bishnupur $(28^{th}$ December, 2016 to 1^{st} January, 2017)

Likely to have no rain upto Sunday. Dense fog very likely at isolated places over Manipur during on 28^{th} Dec during morning hours and mainly clear sky during afternoon hours with maximum temp. $22-24\,^{\circ}$ C & minimum temp. $7-8\,^{\circ}$ C. Relative humidity may reach up to 97 % (max RH) & 45 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North Easterly during next five days.

- As prophylactic and curative measure against early blight, apply Dichlorovos @

Weather Forecast for next 5 days * upto 0830 hours IST of 28th December, 2016 Shallow to Moderate fog at isolated places very likely over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	<u> </u>	ļ	
Potato	Early vegetative		- keep soil moist for good vegetative growth.
		Early Blight	- Spray Mancozeb at 7-10 days interval against early blight.
Rapeseed/	Vegetative and		- Plant population may be maintained by thinning.
Mustard	late sowing		- Irrigation may be given at 30-35 days after sowing if the soil moisture have
			decline.
			- Top dress with 33 kg Urea/ ha just after irrigation.
			- Late sowing may be done if available soil moisture is as much that impression
			of finger on the soil when pressed. Mulch the field with straw after sowing.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative and		- Give light irrigation to pea and lentil just to keep soil moist during vegetative
	late sowing		stage.
			- Late sowing may be done.
			- Avoid plucking off of young shoots of pea plant.
		D	- Plant to plant distance may be maintained by thinning.
		Rust or Powdery mildew	- Spray Propiconazole @ 15ml/ 15 litre water.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against
		Apillu	aphid.
			- For organic control against aphid, sprays that consist of azadirachtin, neem oil
			or pyrethrin may be used.
Rabi maize	Land preparation		- Land preparation for sowing rabi maize may be done.
	to sowing		- Rabi maize may be sown as intercrop with pulses. 60cm width 40cm high
			ridges along east-west may be prepared after ploughing. Southern face may be
			sown with maize and northern with pea seeds.
			-It may be intercropped with rapeseed/ lentil/ pea.
Seeds storage	Post harvest		➤ For seed purpose dry, clean and store the seeds in RC-seed bins after proper
	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
			weight of seeds. After proper drying, store grains in well ventilated godowns.
			Spray Malathion 1% in godowns.
Horticulture Crops			
Cucurbits	Nursery raising		- Prepare for raising nursery of cucurbits like water-melon, cucumber, sponge
			gourd, pumpkin, etc. in poly-pouch and trays under polyhouse.
Rabi Vegetable	Transplanting and		- Transplant 26-30 days old seedlings (4 leaves stage) cole crops.
(cole crops)	vegetative		- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @
DP	Transplanting		2ml/10 lit of water.
Broccoli	Transplanting to Vegetative		- Transplanting of 25-30 days old broccoli having 3-4 leafs may be done with
Tomoto	Transplanting and	-	30x45 cm plant spacing. - Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal were
Tomato	vegetative		previously grown. It is better to plant it where the previous crop was rice, maize,
	vegetative		etc. to avoid bacterial wilt.
			ctc. to avoid bacteriar witt.



Manipur Centre, Lamphelpat, Imphal - 795 004





			0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.
Garden pea/ Bro	ad Vegetative		- Light watering may be done to maintain soil moisture.
bean	au regetative	powdery milde	
			rust especially to the crops grown in moist/ shady area.
Onion	Vegetative		- 45-60 days old onion seedlings may be transplanted.
0111011			- Thinning of onion nursery may be followed if there is shortage of land and
			manpower for transplanting. Give light irrigation during morning and evening
			hours till the plant get established.
Cauliflower	Transplanti	ng to	- Transplanting of 26-30 days old seedlings may be done.
	vegetative		- Apply Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If
			required repeat it after 10 days.
			* Apply <i>Chloropyriphos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage
			infested by cut-worms.
			- Light watering may be done to maintain soil moisture.
Coriander	Vegetative		- Light watering may be done to maintain soil moisture.
Spinach (Palak) Vegetative		- Light watering may be done to maintain soil moisture.
Animal Sciences	S		
Name of the anin			
Poultry	All age groups	Care & management	Protect from intense cold. Keep the shed wall covered with hessian cloth during night.
(Chicken/			Proper ventilation must be provided to protect from moisture inside the shed. Litter
Turkey/ Duck)		December	must be kept dry. > Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with
		Deworming	half the dose at regular interval of 3 weeks.
Sheep/ Goat	All age groups	Coccidiosis	➤ Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking
энсер/ общ	excepts the	Gocciaiosis	water for 7 days.
	young ones	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5
	All age groups		mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	except the	Care and management	➤ Mineral mixture be added in feed @10-20 g/adult animal.
8	young ones		Treat drinking water with potassium permanganate/ sanitizer.
		Mites infestation	 Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds Spray with Skin Heal Spray in sufficient quantity.
	All age groups	Deworming	 Spray with Skin Heal Spray in sufficient quantity. Give Piperazine liquid @ 10-15ml orally once only.
	excepts the	Deworming	➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia,
	young ones	B.Q./ H.S/FMD	Foot & Mouth Disease, etc.
		Ectoparasites	Butox@ 2ml/lit of water at forth night.
Cattle		Care & management	Oat/ Bersum seeds must be sown from the middle of this month.
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.
		Mastitis	To protect in-milk animals, all their milk should be removed and after milking, their
			udders should be cleaned with disinfectant.
		Diarrhoea & Acidosis	Limited quantity of green fodder must be given in animal feed.
Fishery:			
Type of Farming			
			- Stocking of fish for next year may be done in ponds having 1.5m water depth @
Carp/ Catfish	Harvesting and		10,000/ ha.
culture	stock		- Feeds should be provided @ 3 % body weight per day.
	maintenance		- Well balanced feed fortified with vitamins and minerals should be provided.
SMS:			- Apply Lime @ 30-35 kg/ha at 30days interval.

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Chandel

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Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 26th December, 2016)

Observed foggy to mainly cloudy during morning hours and mainly clear to mainly cloudy sky during afternoon hours and no rainfall in the past three days. Maximum temperature range of 23.1 to 24.2 $^{\circ}$ C and a rise in Minimum temperature from 6.9 to 13.1 $^{\circ}$ C with mean relative humidity 92.75 % max and 50.75 % min was recorded in the past four days. The average wind speed range remained 3.3 to 4.1 km/hr.

Weather forecast for next five days of Chandel (28th December, 2016 to 1st January, 2017)

Likely to have no rain upto Sunday. Dense fog very likely at isolated places over Manipur during on 28^{th} Dec during morning hours and mainly clear sky during afternoon hours with maximum temp. $22-24\,^{\circ}$ C & minimum temp. $7-9\,^{\circ}$ C. Relative humidity may reach up to 98 % (max RH) & 54 % (min RH). The average wind speed may be 3 km/hr. Wind direction may be South Westerly during next five days.

Weather Forecast for next 5 days * upto 0830 hours IST of 28th December, 2016 Shallow to Moderate fog at isolated places very likely over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Potato	Early vegetative		- keep soil moist for good vegetative growth.
		Early Blight	- Spray Mancozeb at 7-10 days interval against early blight.
Rapeseed/	Vegetative and	, ,	- Plant population may be maintained by thinning.
Mustard	late sowing		- Irrigation may be given at 30-35 days after sowing if the soil moisture have decline.
			- Top dress with 33 kg Urea/ ha just after irrigation.
			- Late sowing may be done if available soil moisture is as much that impression
			of finger on the soil when pressed. Mulch the field with straw after sowing.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative and	Tiplino	- Give light irrigation to pea and lentil just to keep soil moist during vegetative
I discs	late sowing		stage.
			- Late sowing may be done.
			- Avoid plucking off of young shoots of pea plant.
			- Plant to plant distance may be maintained by thinning.
		Rust or Powdery	- Spray Propiconazole @ 15ml/ 15 litre water.
		mildew	
		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.
Rabi maize	Land preparation		- Land preparation for sowing rabi maize may be done.
	to sowing		- Rabi maize may be sown as intercrop with pulses. 60cm width 40cm high
			ridges along east-west may be prepared after ploughing. Southern face may be
			sown with maize and northern with pea seeds.
			-It may be intercropped with rapeseed/lentil/pea.
Seeds storage	Post harvest		For seed purpose dry, clean and store the seeds in RC-seed bins after proper
	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
			weight of seeds. After proper drying, store grains in well ventilated godowns.
			Spray Malathion 1% in godowns.
Horticulture Crops			
Cucurbits	Nursery raising		- Prepare for raising nursery of cucurbits like water-melon, cucumber, sponge
			gourd, pumpkin, etc. in poly-pouch and trays under polyhouse.
Rabi Vegetable	Transplanting and		- Transplant 26-30 days old seedlings (4 leaves stage) cole crops.
(cole crops)	vegetative		- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @
			2ml/ 10 lit of water.
Broccoli	Transplanting to		- Transplanting of 25-30 days old broccoli having 3-4 leafs may be done with
	Vegetative		30x45 cm plant spacing.
Tomato	Transplanting and		- Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal were
	vegetative		previously grown. It is better to plant it where the previous crop was rice, maize,

etc. to avoid bacterial wilt.

- As prophylactic and curative measure against early blight, apply Dichlorovos @



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			0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply
Garden pea/ Bro	ad Vegetative		Dithane M 45 @ 2g/ litre of water. - Light watering may be done to maintain soil moisture.
bean	vegetative	powdery milde	
bean		and yellow rust	
Onion	Vegetative	and yours writing	- 45-60 days old onion seedlings may be transplanted.
Omon	, egetati ve		- Thinning of onion nursery may be followed if there is shortage of land and
			manpower for transplanting. Give light irrigation during morning and evening
			hours till the plant get established.
Cauliflower	Transplantii	ng to	- Transplanting of 26-30 days old seedlings may be done.
	vegetative		- Apply Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf
			curling, development of purple coloured vein due to absence of micronutrient. If
			required repeat it after 10 days.
			* Apply <i>Chloropyriphos (1.5%) dust @25</i> kg /ha to the cauliflower/ cabbage infested by cut-worms.
			- Light watering may be done to maintain soil moisture.
Coriander	Vegetative		- Light watering may be done to maintain soil moisture.
Spinach (Palak			- Light watering may be done to maintain soil moisture.
Animal Science			
Name of the anir			
Poultry	All age groups	Care & management	Protect from intense cold. Keep the shed wall covered with hessian cloth during night.
(Chicken/			Proper ventilation must be provided to protect from moisture inside the shed. Litter
Turkey/ Duck)			must be kept dry.
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with
			half the dose at regular interval of 3 weeks.
Sheep/ Goat	All age groups	Coccidiosis	➤ Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking
	excepts the young ones	Vaccination	water for 7 days. Vaccinate against sheep/ goat pox and Enterotoxaemia.
	young ones	v accination	vaccinate against sneep/ goat pox and Enterotoxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5
	All age groups		mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	except the	Care and management	
8	young ones		Treat drinking water with potassium permanganate/ sanitizer.
		Mites infestation	 Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds Spray with Skin Heal Spray in sufficient quantity.
	All age groups	Deworming	 Spray with Skin Heal Spray in sufficient quantity. Give Piperazine liquid @ 10-15ml orally once only.
	excepts the	Deworming	➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia,
	young ones	B.Q./ H.S/FMD	Foot & Mouth Disease, etc.
		Ectoparasites	Butox@ 2ml/lit of water at forth night.
Cattle		Care & management	Oat/ Bersum seeds must be sown from the middle of this month.
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.
		Mastitis	To protect in-milk animals, all their milk should be removed and after milking, their
			udders should be cleaned with disinfectant.
		Diarrhoea & Acidosis	Limited quantity of green fodder must be given in animal feed.
T. 1			
Fishery: Type of Farming			
Type of Farming			- Stocking of fish for next year may be done in ponds having 1.5m water depth @
Carp/ Catfish	Harvesting and		10,000/ ha.
culture	stock		- Feeds should be provided @ 3 % body weight per day.
	maintenance		- Well balanced feed fortified with vitamins and minerals should be provided.
			- Apply Lime @ 30-35 kg/ha at 30days interval.

SMS:



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Churachandpur

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Significant past weather for the preceding bi-weekly of Imphal - West $(23^{rd}$ to 26^{th} December, 2016)

Observed foggy to mainly cloudy during morning hours and mainly clear to mainly cloudy sky during afternoon hours and no rainfall in the past three days. Maximum temperature range of 23.1 to 24.2 $^{\circ}$ C and a rise in Minimum temperature from 6.9 to 13.1 $^{\circ}$ C with mean relative humidity 92.75 % max and 50.75 % min was recorded in the past four days. The average wind speed range remained 3.3 to 4.1 km/hr.

Weather forecast for next five days of Churachandpur $(28^{th}$ December, 2016 to 1^{st} January, 2017)

Likely to have no rain upto Sunday. Dense fog very likely at isolated places over Manipur during on 28^{th} Dec during morning hours and mainly clear sky during afternoon hours with maximum temp. $21-22\,^{\circ}$ C & minimum temp. $6-8\,^{\circ}$ C. Relative humidity may reach up to 96 % (max RH) & 47 % (min RH). The average wind speed may be 3-4 km/hr. Wind direction may be North Easterly during next five days.

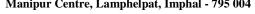
- As prophylactic and curative measure against early blight, apply Dichlorovos @

Weather Forecast for next 5 days * upto 0830 hours IST of 28th December, 2016 Shallow to Moderate fog at isolated places very likely over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	I	ļi	
Potato	Early vegetative		- keep soil moist for good vegetative growth.
		Early Blight	- Spray Mancozeb at 7-10 days interval against early blight.
Rapeseed/	Vegetative and		- Plant population may be maintained by thinning.
Mustard	late sowing		- Irrigation may be given at 30-35 days after sowing if the soil moisture have
			decline.
			- Top dress with 33 kg Urea/ ha just after irrigation.
			- Late sowing may be done if available soil moisture is as much that impression
			of finger on the soil when pressed. Mulch the field with straw after sowing.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative and		- Give light irrigation to pea and lentil just to keep soil moist during vegetative
	late sowing		stage.
			- Late sowing may be done.
			- Avoid plucking off of young shoots of pea plant.
			- Plant to plant distance may be maintained by thinning.
		Rust or Powdery mildew	- Spray Propiconazole @ 15ml/ 15 litre water.
		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.
Rabi maize	Land preparation		- Land preparation for sowing rabi maize may be done.
	to sowing		- Rabi maize may be sown as intercrop with pulses. 60cm width 40cm high
			ridges along east-west may be prepared after ploughing. Southern face may be
			sown with maize and northern with pea seeds.
G 1 4	D. d.		-It may be intercropped with rapeseed/ lentil/ pea.
Seeds storage	Post harvest		For seed purpose dry, clean and store the seeds in RC-seed bins after proper
	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
			weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.
Horticulture Crops			Spray Maiaunon 1% in godowns.
Cucurbits	Nursery raising		- Prepare for raising nursery of cucurbits like water-melon, cucumber, sponge
Cucui Dits	runsery runsing		gourd, pumpkin, etc. in poly-pouch and trays under polyhouse.
Rabi Vegetable	Transplanting and		- Transplant 26-30 days old seedlings (4 leaves stage) cole crops.
(cole crops)	vegetative		- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @
(core crops)			2ml/ 10 lit of water.
Broccoli	Transplanting to		- Transplanting of 25-30 days old broccoli having 3-4 leafs may be done with
2100011	Vegetative		30x45 cm plant spacing.
Tomato	Transplanting and		- Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal were
	vegetative		previously grown. It is better to plant it where the previous crop was rice, maize,
			etc. to avoid bacterial wilt.
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"Gramin Krishi Mausam Seva"



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			0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply
Candan mas/ Dus	Vo gototivo		Dithane M 45 @ 2g/ litre of water. - Light watering may be done to maintain soil moisture.
Garden pea/ Broa	ad Vegetative	marridami mildar	
bean		powdery milder and yellow rust	
Onion	Vegetative		- 45-60 days old onion seedlings may be transplanted.
			- Thinning of onion nursery may be followed if there is shortage of land and
			manpower for transplanting. Give light irrigation during morning and evening
			hours till the plant get established.
Cauliflower	Transplantir	ng to	- Transplanting of 26-30 days old seedlings may be done.
	vegetative		- Apply Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If
			required repeat it after 10 days.
			* Apply <i>Chloropyriphos</i> (1.5%) dust @25 kg /ha to the cauliflower/ cabbage
			infested by cut-worms.
			- Light watering may be done to maintain soil moisture.
Coriander	Vegetative		- Light watering may be done to maintain soil moisture.
Spinach (Palak)) Vegetative		- Light watering may be done to maintain soil moisture.
Animal Sciences	s		
Name of the anim	nal		
Poultry	All age groups	Care & management	Protect from intense cold. Keep the shed wall covered with hessian cloth during night.
(Chicken/			Proper ventilation must be provided to protect from moisture inside the shed. Litter
Turkey/ Duck)			must be kept dry.
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Sheep/ Goat	All age groups	Coccidiosis	➤ Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking
	excepts the young ones	Vaccination	water for 7 days. Vaccinate against sheep/ goat pox and Enterotoxaemia.
		De-worming	De-worming of animals should be done using Abendazole/ Levamisole @7.5
	All age groups	Care and management	mg/kg b.wt. or Ivermectin @50mg/kg b. wt. Mineral mixture be added in feed @10-20 g/adult animal.
Pig	except the	Care and management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer.
	young ones		 Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	 Spray with Skin Heal Spray in sufficient quantity.
	All age groups	Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
	excepts the	20 Worming	➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia,
	young ones	B.Q./ H.S/FMD	Foot & Mouth Disease, etc.
G 113		Ectoparasites	Butox@ 2ml/lit of water at forth night.
Cattle		Care & management	Oat/ Bersum seeds must be sown from the middle of this month.
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.
		Mastitis	To protect in-milk animals, all their milk should be removed and after milking, their udders should be cleaned with disinfectant.
		Diarrhoea & Acidosis	Limited quantity of green fodder must be given in animal feed.
Fishery: Type of Farming			
Carp/ Catfish	Harvesting and		- Stocking of fish for next year may be done in ponds having 1.5m water depth @ 10,000/ ha.
culture	stock		- Feeds should be provided @ 3 % body weight per day.
	maintenance		- Well balanced feed fortified with vitamins and minerals should be provided.
			- Apply Lime @ 30-35 kg/ha at 30days interval.
SMS:			



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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 28th December, 2016 to 1st January, 2017 as below:

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Weather forecast for next five days of Senapati $(28^{th}$ December, 2016 to 1^{st} January, 2017)

Likely to have no rain upto Sunday. Dense fog very likely at isolated places over Manipur during on 28^{th} Dec during morning hours and mainly clear sky during afternoon hours with maximum temp. $18-20\,^{\circ}$ C & minimum temp. $3-5\,^{\circ}$ C. Relative humidity may reach up to 99 % (max RH) & 37 % (min RH). The average wind speed may be 4 km/hr. Wind direction may be North Easterly during next five days.

Weather Forecast for next 5 days * upto 0830 hours IST of 28th December, 2016 Shallow to Moderate fog at isolated places very likely over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			<u> </u>
Potato	Early vegetative		- keep soil moist for good vegetative growth.
		Early Blight	- Spray Mancozeb at 7-10 days interval against early blight.
Rapeseed/	Vegetative and	, ,	- Plant population may be maintained by thinning.
Mustard	late sowing		- Irrigation may be given at 30-35 days after sowing if the soil moisture have
11200000100			decline.
			- Top dress with 33 kg Urea/ ha just after irrigation.
			- Late sowing may be done if available soil moisture is as much that impression
			of finger on the soil when pressed. Mulch the field with straw after sowing.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative and		- Give light irrigation to pea and lentil just to keep soil moist during vegetative
	late sowing		stage.
			- Late sowing may be done.
			- Avoid plucking off of young shoots of pea plant.
			- Plant to plant distance may be maintained by thinning.
		Rust or Powdery	- Spray Propiconazole @ 15ml/ 15 litre water.
		mildew	
		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.
Rabi maize	Land preparation		- Land preparation for sowing rabi maize may be done.
	to sowing		- Rabi maize may be sown as intercrop with pulses. 60cm width 40cm high
			ridges along east-west may be prepared after ploughing. Southern face may be
			sown with maize and northern with pea seeds.
G 1 4			-It may be intercropped with rapeseed/ lentil/ pea.
Seeds storage	Post harvest		For seed purpose dry, clean and store the seeds in RC-seed bins after proper
	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
			weight of seeds. After proper drying, store grains in well ventilated godowns.
Horticulture Crops			Spray Malathion 1% in godowns.
<u>-</u>	N.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Decrease for reciping represents of averable 121
Cucurbits	Nursery raising		- Prepare for raising nursery of cucurbits like water-melon, cucumber, sponge
D 1137 / 11	Turnentine 1		gourd, pumpkin, etc. in poly-pouch and trays under polyhouse. - Transplant 26-30 days old seedlings (4 leaves stage) cole crops.
Rabi Vegetable	Transplanting and		- Transplant 26-30 days old seedlings (4 leaves stage) cole crops If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @
(cole crops)	vegetative		- If there is incidence of leaf eating caterpiliar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Dwagosk	Transplanting to		- Transplanting of 25-30 days old broccoli having 3-4 leafs may be done with
Broccoli	Vegetative		30x45 cm plant spacing.
Tomoto	Transplanting and		- Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal were
Tomato	vegetative		previously grown. It is better to plant it where the previous crop was rice, maize,
	vegetative		previously grown. It is better to plaint it where the previous crop was fice, marze,

etc. to avoid bacterial wilt.

- As prophylactic and curative measure against early blight, apply Dichlorovos @



Manipur Centre, Lamphelpat, Imphal - 795 004





			0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply
G 1 /D	7 77		Dithane M 45 @ 2g/ litre of water.
Garden pea/ Bro	ad Vegetative	1 111	- Light watering may be done to maintain soil moisture.
bean		powdery mildev and yellow rust	rust especially to the crops grown in moist/ shady area.
Onion	Vegetative		- 45-60 days old onion seedlings may be transplanted.
			 Thinning of onion nursery may be followed if there is shortage of land and manpower for transplanting. Give light irrigation during morning and evening hours till the plant get established.
Cauliflower	Transplantir vegetative	ng to	 Transplanting of 26-30 days old seedlings may be done. Apply Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days. * Apply Chloropyriphos (1.5%) dust @25 kg /ha to the cauliflower/ cabbage infested by cut-worms. Light watering may be done to maintain soil moisture.
Coriander	Vegetative		- Light watering may be done to maintain soil moisture.
Spinach (Palak) Vegetative		- Light watering may be done to maintain soil moisture.
Animal Sciences			
Name of the anin	nal	·	,
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	Protect from intense cold. Keep the shed wall covered with hessian cloth during night. Proper ventilation must be provided to protect from moisture inside the shed. Litter must be kept dry.
Turney, Dueny		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Sheep/ Goat	All age groups excepts the	Coccidiosis	Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking water for 7 days.
	young ones	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
	A 11	De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young ones	Care and management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
	All age groups	Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
	excepts the young ones	B.Q./ H.S/FMD	If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc.
C-41		Ectoparasites	Butox@ 2ml/lit of water at forth night.
Cattle		Care & management	Oat/ Bersum seeds must be sown from the middle of this month.
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.
		Mastitis	To protect in-milk animals, all their milk should be removed and after milking, their udders should be cleaned with disinfectant.
		Diarrhoea & Acidosis	Limited quantity of green fodder must be given in animal feed.
Fishery: Type of Farming			
Carp/ Catfish	Harvesting and		- Stocking of fish for next year may be done in ponds having 1.5m water depth @ 10,000/ ha.
culture	stock maintenance		Feeds should be provided @ 3 % body weight per day.Well balanced feed fortified with vitamins and minerals should be provided.
SMS:			- Apply Lime @ 30-35 kg/ha at 30days interval.



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 27th December, 2016

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 28th December, 2016 to 1st January, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(23^{rd}$ to 26^{th} December, 2016)

Observed foggy to mainly cloudy during morning hours and mainly clear to mainly cloudy sky during afternoon hours and no rainfall in the past three days. Maximum temperature range of 23.1 to 24.2 $^{\circ}$ C and a rise in Minimum temperature from 6.9 to 13.1 $^{\circ}$ C with mean relative humidity 92.75 % max and 50.75 % min was recorded in the past four days. The average wind speed range remained 3.3 to 4.1 km/hr.

Weather forecast for next five days of Tamenglong $(28^{th}$ December, 2016 to 1^{st} January, 2017)

Likely to have no rain upto Sunday. Dense fog very likely at isolated places over Manipur during on 28^{th} Dec during morning hours and mainly clear sky during afternoon hours with maximum temp. $21-23\,^{\circ}$ C & minimum temp. $7-9\,^{\circ}$ C. Relative humidity may reach up to 91 % (max RH) & 41 % (min RH). The average wind speed may be 4-5 km/hr. Wind direction may be North Easterly during next five days.

- As prophylactic and curative measure against early blight, apply Dichlorovos @

Weather Forecast for next 5 days * upto 0830 hours IST of 28th December, 2016 Shallow to Moderate fog at isolated places very likely over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	<u> </u>	J.	
Potato	Early vegetative		- keep soil moist for good vegetative growth.
		Early Blight	- Spray Mancozeb at 7-10 days interval against early blight.
Rapeseed/	Vegetative and	, , ,	- Plant population may be maintained by thinning.
Mustard	late sowing		- Irrigation may be given at 30-35 days after sowing if the soil moisture have
			decline.
			- Top dress with 33 kg Urea/ ha just after irrigation.
			- Late sowing may be done if available soil moisture is as much that impression
			of finger on the soil when pressed. Mulch the field with straw after sowing.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative and		- Give light irrigation to pea and lentil just to keep soil moist during vegetative
	late sowing		stage.
			- Late sowing may be done.
			Avoid plucking off of young shoots of pea plant.Plant to plant distance may be maintained by thinning.
		Rust or Powdery	- Spray Propiconazole @ 15ml/ 15 litre water.
		mildew	- Spray Propiconazoie @ 15mm/ 15 mile water.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against
		Apiliu	aphid.
			- For organic control against aphid, sprays that consist of azadirachtin, neem oil
			or pyrethrin may be used.
Rabi maize	Land preparation		- Land preparation for sowing rabi maize may be done.
	to sowing		- Rabi maize may be sown as intercrop with pulses. 60cm width 40cm high
			ridges along east-west may be prepared after ploughing. Southern face may be
			sown with maize and northern with pea seeds.
			-It may be intercropped with rapeseed/ lentil/ pea.
Seeds storage	Post harvest		> For seed purpose dry, clean and store the seeds in RC-seed bins after proper
	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
			weight of seeds. After proper drying, store grains in well ventilated godowns.
			Spray Malathion 1% in godowns.
Horticulture Crops	1		
Cucurbits	Nursery raising		- Prepare for raising nursery of cucurbits like water-melon, cucumber, sponge
D 1177 11	TD 1 41 1		gourd, pumpkin, etc. in poly-pouch and trays under polyhouse.
Rabi Vegetable	Transplanting and		- Transplant 26-30 days old seedlings (4 leaves stage) cole crops If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @
(cole crops)	vegetative		2ml/ 10 lit of water.
Broccoli	Transplanting to		- Transplanting of 25-30 days old broccoli having 3-4 leafs may be done with
DIOCCOII	Vegetative		30x45 cm plant spacing.
Tomato	Transplanting and		- Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal were
Tomato	vegetative		previously grown. It is better to plant it where the previous crop was rice, maize,
			etc. to avoid bacterial wilt.
	1		



Manipur Centre, Lamphelpat, Imphal - 795 004



"Gramin Krishi Mausam Seva"

			0.5ml/litre of water or Imidachlorpid @ 2ml/5 litres of water. Also apply
			Dithane M 45 @ 2g/ litre of water.
Garden pea/ Broa	d Vegetative		- Light watering may be done to maintain soil moisture.
bean	bean		 Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow
		and yellow rust	
Onion	Vegetative		- 45-60 days old onion seedlings may be transplanted.
			- Thinning of onion nursery may be followed if there is shortage of land and manpower for transplanting. Give light irrigation during morning and evening hours till the plant get established.
Cauliflower	Transplantii vegetative	ng to	 Transplanting of 26-30 days old seedlings may be done. Apply Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days. * Apply <i>Chloropyriphos</i> (1.5%) dust @25 kg /ha to the cauliflower/ cabbage infested by cut-worms. Light watering may be done to maintain soil moisture.
Coriander	Vegetative		- Light watering may be done to maintain soil moisture.
Spinach (Palak)	Vegetative		- Light watering may be done to maintain soil moisture.
Animal Sciences			
Name of the anima			
Poultry	All age groups	Care & management	Protect from intense cold. Keep the shed wall covered with hessian cloth during night.
(Chicken/			Proper ventilation must be provided to protect from moisture inside the shed. Litter
Turkey/ Duck)		Deworming	must be kept dry. > Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with
		Deworming	half the dose at regular interval of 3 weeks.
Sheep/ Goat	All age groups	Coccidiosis	➤ Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking
Sheep, Sout	excepts the	Goodalosis	water for 7 days.
	young ones	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
		De-worming	De-worming of animals should be done using Abendazole/ Levamisole @7.5
	All age groups	Care and management	mg/kg b.wt. or Ivermectin @50mg/kg b. wt. Mineral mixture be added in feed @10-20 g/adult animal.
Pig	except the	Care and management	 Treat drinking water with potassium permanganate/ sanitizer.
	young ones		 Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
	All age groups	Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
	excepts the		➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia,
	young ones	B.Q./ H.S/FMD	Foot & Mouth Disease, etc.
Cattle		Ectoparasites	Butox@ 2ml/lit of water at forth night.
Cattle		Care & management	Oat/ Bersum seeds must be sown from the middle of this month.
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.
		Mastitis	To protect in-milk animals, all their milk should be removed and after milking, their udders should be cleaned with disinfectant.
		Diarrhoea & Acidosis	Limited quantity of green fodder must be given in animal feed.
Fishery: Type of Farming	I	1	1
Carp/ Catfish culture	Harvesting and stock		- Stocking of fish for next year may be done in ponds having 1.5m water depth @ 10,000/ ha Feeds should be provided @ 3 % body weight per day.
	maintenance		Well balanced feed fortified with vitamins and minerals should be provided.Apply Lime @ 30-35 kg/ha at 30days interval.
SMS:			



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 27th December, 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 28th December, 2016 to 1st January, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(23^{rd}$ to 26^{th} December, 2016)

Observed foggy to mainly cloudy during morning hours and mainly clear to mainly cloudy sky during afternoon hours and no rainfall in the past three days. Maximum temperature range of 23.1 to 24.2 $^{\circ}$ C and a rise in Minimum temperature from 6.9 to 13.1 $^{\circ}$ C with mean relative humidity 92.75 % max and 50.75 % min was recorded in the past four days. The average wind speed range remained 3.3 to 4.1 km/hr.

Weather forecast for next five days of Thoubal $(28^{th}$ December, 2016 to 1^{st} January, 2017)

Likely to have no rain upto Sunday. Dense fog very likely at isolated places over Manipur during on 28^{th} Dec during morning hours and mainly clear sky during afternoon hours with maximum temp. $22-23\,^{\circ}$ C & minimum temp. $6-7\,^{\circ}$ C. Relative humidity may reach up to 99 % (max RH) & 45 % (min RH). The average wind speed may be 2 km/hr. Wind direction may be South Easterly during next five days.

- As prophylactic and curative measure against early blight, apply Dichlorovos @

Weather Forecast for next 5 days * upto 0830 hours IST of 28th December, 2016 Shallow to Moderate fog at isolated places very likely over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	I	ļi	<u> </u>
Potato	Early vegetative		- keep soil moist for good vegetative growth.
		Early Blight	- Spray Mancozeb at 7-10 days interval against early blight.
Rapeseed/	Vegetative and		- Plant population may be maintained by thinning.
Mustard	late sowing		- Irrigation may be given at 30-35 days after sowing if the soil moisture have
			decline.
			- Top dress with 33 kg Urea/ ha just after irrigation.
			- Late sowing may be done if available soil moisture is as much that impression
			of finger on the soil when pressed. Mulch the field with straw after sowing.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative and		- Give light irrigation to pea and lentil just to keep soil moist during vegetative
	late sowing		stage.
			- Late sowing may be done.
			- Avoid plucking off of young shoots of pea plant.
			- Plant to plant distance may be maintained by thinning.
		Rust or Powdery mildew	- Spray Propiconazole @ 15ml/ 15 litre water.
		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.
Rabi maize	Land preparation		- Land preparation for sowing rabi maize may be done.
	to sowing		- Rabi maize may be sown as intercrop with pulses. 60cm width 40cm high
			ridges along east-west may be prepared after ploughing. Southern face may be
			sown with maize and northern with pea seeds.
G 1 4	D. d.		-It may be intercropped with rapeseed/ lentil/ pea.
Seeds storage	Post harvest		For seed purpose dry, clean and store the seeds in RC-seed bins after proper
	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
			weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.
Horticulture Crops			Spray Malaunon 1% in godowns.
Cucurbits	Nursery raising		- Prepare for raising nursery of cucurbits like water-melon, cucumber, sponge
Cucuibits	runsery raising		gourd, pumpkin, etc. in poly-pouch and trays under polyhouse.
Rabi Vegetable	Transplanting and		- Transplant 26-30 days old seedlings (4 leaves stage) cole crops.
(cole crops)	vegetative		- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @
(core crops)	regetative		2ml/ 10 lit of water.
Broccoli	Transplanting to		- Transplanting of 25-30 days old broccoli having 3-4 leafs may be done with
Dioceon	Vegetative		30x45 cm plant spacing.
Tomato	Transplanting and		- Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal were
	vegetative		previously grown. It is better to plant it where the previous crop was rice, maize,
			etc. to avoid bacterial wilt.



Manipur Centre, Lamphelpat, Imphal - 795 004





		<u> </u>	
			0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply
Garden pea/ Bro	ad Vegetative		Dithane M 45 @ 2g/ litre of water. - Light watering may be done to maintain soil moisture.
bean	vegetative	powdery milde	
bean		and yellow rust	
Onion	Vegetative	and yours writing	- 45-60 days old onion seedlings may be transplanted.
Omon	, egetati ve		- Thinning of onion nursery may be followed if there is shortage of land and
			manpower for transplanting. Give light irrigation during morning and evening
			hours till the plant get established.
Cauliflower	Transplantii	ng to	- Transplanting of 26-30 days old seedlings may be done.
	vegetative		- Apply Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf
			curling, development of purple coloured vein due to absence of micronutrient. If
			required repeat it after 10 days.
			* Apply <i>Chloropyriphos (1.5%) dust @25</i> kg /ha to the cauliflower/ cabbage infested by cut-worms.
			- Light watering may be done to maintain soil moisture.
Coriander	Vegetative		- Light watering may be done to maintain soil moisture.
Spinach (Palak			- Light watering may be done to maintain soil moisture.
Animal Science			
Name of the anir			
Poultry	All age groups	Care & management	Protect from intense cold. Keep the shed wall covered with hessian cloth during night.
(Chicken/			Proper ventilation must be provided to protect from moisture inside the shed. Litter
Turkey/ Duck)			must be kept dry.
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with
			half the dose at regular interval of 3 weeks.
Sheep/ Goat	All age groups	Coccidiosis	➤ Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking
	excepts the young ones	Vaccination	water for 7 days. Vaccinate against sheep/ goat pox and Enterotoxaemia.
	young ones	v accination	vaccinate against sneep/ goat pox and Enterotoxaemia.
		De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5
	All age groups		mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	except the	Care and management	
8	young ones		Treat drinking water with potassium permanganate/ sanitizer.
		Mites infestation	 Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds Spray with Skin Heal Spray in sufficient quantity.
	All age groups	Deworming	 Spray with Skin Heal Spray in sufficient quantity. Give Piperazine liquid @ 10-15ml orally once only.
	excepts the	Deworming	➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia,
	young ones	B.Q./ H.S/FMD	Foot & Mouth Disease, etc.
		Ectoparasites	Butox@ 2ml/lit of water at forth night.
Cattle		Care & management	Oat/ Bersum seeds must be sown from the middle of this month.
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.
		Mastitis	To protect in-milk animals, all their milk should be removed and after milking, their
			udders should be cleaned with disinfectant.
		Diarrhoea & Acidosis	Limited quantity of green fodder must be given in animal feed.
T. 1			
Fishery: Type of Farming			
Type of Farming			- Stocking of fish for next year may be done in ponds having 1.5m water depth @
Carp/ Catfish	Harvesting and		10,000/ ha.
culture	stock		- Feeds should be provided @ 3 % body weight per day.
	maintenance		- Well balanced feed fortified with vitamins and minerals should be provided.
			- Apply Lime @ 30-35 kg/ha at 30days interval.

SMS:



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 27th December, 2016

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 28th December, 2016 to 1st January, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(23^{rd}$ to 26^{th} December, 2016)

Observed foggy to mainly cloudy during morning hours and mainly clear to mainly cloudy sky during afternoon hours and no rainfall in the past three days. Maximum temperature range of 23.1 to 24.2 $^{\circ}$ C and a rise in Minimum temperature from 6.9 to 13.1 $^{\circ}$ C with mean relative humidity 92.75 % max and 50.75 % min was recorded in the past four days. The average wind speed range remained 3.3 to 4.1 km/hr.

Weather forecast for next five days of Ukhrul (28th December, 2016 to 1st January, 2017)

Likely to have no rain upto Sunday. Dense fog very likely at isolated places over Manipur during on 28^{th} Dec during morning hours and mainly clear sky during afternoon hours with maximum temp. $18-20\ ^{\circ}$ C & minimum temp. 3- $5\ ^{\circ}$ C. Relative humidity may reach up to 98 % (max RH) & 48 % (min RH). The average wind speed may be 3 km/hr. Wind direction may be South Westerly during next five days.

- As prophylactic and curative measure against early blight, apply Dichlorovos @

Weather Forecast for next 5 days * upto 0830 hours IST of 28th December, 2016 Shallow to Moderate fog at isolated places very likely over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Potato	Early vegetative		- keep soil moist for good vegetative growth.
		Early Blight	- Spray Mancozeb at 7-10 days interval against early blight.
Rapeseed/	Vegetative and	, ,	- Plant population may be maintained by thinning.
Mustard	late sowing		- Irrigation may be given at 30-35 days after sowing if the soil moisture have
			decline.
			- Top dress with 33 kg Urea/ ha just after irrigation.
			- Late sowing may be done if available soil moisture is as much that impression
			of finger on the soil when pressed. Mulch the field with straw after sowing.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative and		- Give light irrigation to pea and lentil just to keep soil moist during vegetative
	late sowing		stage.
			- Late sowing may be done.- Avoid plucking off of young shoots of pea plant.
			- Avoid placking off of young shoots of pea plant Plant to plant distance may be maintained by thinning.
		Rust or Powdery	- Spray Propiconazole @ 15ml/ 15 litre water.
		mildew	Spray Propressing Street Water.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against
		1	aphid.
			- For organic control against aphid, sprays that consist of azadirachtin, neem oil
			or pyrethrin may be used.
Rabi maize	Land preparation to sowing		- Land preparation for sowing rabi maize may be done.
			- Rabi maize may be sown as intercrop with pulses. 60cm width 40cm high
			ridges along east-west may be prepared after ploughing. Southern face may be
			sown with maize and northern with pea seeds.
			-It may be intercropped with rapeseed/ lentil/ pea.
Seeds storage	Post harvest		For seed purpose dry, clean and store the seeds in RC-seed bins after proper
	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
			weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.
Horticulture Crops			Spray Maraunon 1% in godowns.
Cucurbits	Nursery raising		- Prepare for raising nursery of cucurbits like water-melon, cucumber, sponge
Cucui Dits	runsery runsing		gourd, pumpkin, etc. in poly-pouch and trays under polyhouse.
Rabi Vegetable	Transplanting and		- Transplant 26-30 days old seedlings (4 leaves stage) cole crops.
(cole crops)	vegetative		- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @
(core er ops)			2ml/ 10 lit of water.
Broccoli	Transplanting to		- Transplanting of 25-30 days old broccoli having 3-4 leafs may be done with
	Vegetative		30x45 cm plant spacing.
Tomato	Transplanting and		- Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal were
	vegetative		previously grown. It is better to plant it where the previous crop was rice, maize,
			etc. to avoid bacterial wilt.



Manipur Centre, Lamphelpat, Imphal - 795 004





					0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply
					Dithane M 45 @ 2g/ litre of water.
Garden pea/ Bro	ad	Vegetative			- Light watering may be done to maintain soil moisture.
bean				powdery mildev	
				and yellow rust	rust especially to the crops grown in moist/ shady area.
Onion		Vegetative			- 45-60 days old onion seedlings may be transplanted.
					- Thinning of onion nursery may be followed if there is shortage of land and
					manpower for transplanting. Give light irrigation during morning and evening
					hours till the plant get established.
Cauliflower		Transplantir	ng to		- Transplanting of 26-30 days old seedlings may be done.
		vegetative			- Apply Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf
					curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
					* Apply <i>Chloropyriphos (1.5%) dust @25</i> kg /ha to the cauliflower/ cabbage
					infested by cut-worms.
					- Light watering may be done to maintain soil moisture.
Coriander		Vegetative			- Light watering may be done to maintain soil moisture.
Spinach (Palak)	Vegetative			- Light watering may be done to maintain soil moisture.
Animal Science		regettitre			2.50 watering may be done to mannam son moistable
Name of the anin					
Poultry		ll age groups	Care d	& management	Protect from intense cold. Keep the shed wall covered with hessian cloth during night.
(Chicken/	11	n age groups	Care & management		Proper ventilation must be provided to protect from moisture inside the shed. Litter
Turkey/ Duck)					must be kept dry.
2 42 110 (1 2 4 6 12)			Dewo	rming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with
			Coccidiosis		half the dose at regular interval of 3 weeks.
Sheep/ Goat		ll age groups			➤ Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking
		cepts the			water for 7 days.
	yc	young ones Vacc		nation	Vaccinate against sheep/ goat pox and Enterotoxaemia.
			De-worming		➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5
	A 1			· ·	mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig		ll age groups	Care and management		
1 ig		except the young ones			➤ Treat drinking water with potassium permanganate/ sanitizer.
	,,	rung ones			➤ Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
				infestation	> Spray with Skin Heal Spray in sufficient quantity.
		excepts the young ones B.Q.		rming	➤ Give Piperazine liquid @ 10-15ml orally once only.
				II C/EMD	If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia,
	yc			H.S/FMD arasites	Foot & Mouth Disease, etc. Butox@ 2ml/lit of water at forth night.
Cattle			_		
				& management	Oat/ Bersum seeds must be sown from the middle of this month.
			Masti		Adequate care must be taken to prevent occurrence of Masitis.
			Masti	tis	To protect in-milk animals, all their milk should be removed and after milking, their udders should be cleaned with disinfectant.
		Diarrhoea		noea & Acidosis	
		Diaminous de l'influence		Elimited quality of green found industrie given in allimital feed.	
Fishery: Type of Farming			I		
7F					- Stocking of fish for next year may be done in ponds having 1.5m water depth @
Carp/ Catfish	Har	vesting and			10,000/ ha.
culture		stock maintenance			- Feeds should be provided @ 3 % body weight per day.
	maii				- Well balanced feed fortified with vitamins and minerals should be provided.
SMS.				- Apply Lime @ 30-35 kg/ha at 30days interval.	

SMS:



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 27th December, 2016

Imphal East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 28th December, 2016 to 1st January, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(23^{rd}\ to\ 26^{th}\ December,\ 2016)$

vegetative

Early Blight

Observed foggy to mainly cloudy during morning hours and mainly clear to mainly cloudy sky during afternoon hours and no rainfall in the past three days. Maximum temperature range of 23.1 to 24.2 $^{\circ}$ C and a rise in Minimum temperature from 6.9 to 13.1 $^{\circ}$ C with mean relative humidity 92.75 % max and 50.75 % min was recorded in the past four days. The average wind speed range remained 3.3 to 4.1 km/hr.

Weather forecast for next five days of Imphal East $(28^{th}$ December, 2016 to 1^{st} January, 2017)

Likely to have no rain upto Sunday. Dense fog very likely at isolated places over Manipur during on 28^{th} Dec during morning hours and mainly clear sky during afternoon hours with maximum temp. $22-23\,^{\circ}$ C & minimum temp. $6-8\,^{\circ}$ C. Relative humidity may reach up to 99 % (max RH) & 38 % (min RH). The average wind speed may be 3-4 km/hr. Wind direction may be North Easterly during next five days.

previously grown. It is better to plant it where the previous crop was rice, maize,

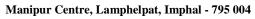
- As prophylactic and curative measure against early blight, apply Dichlorovos @

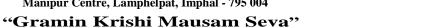
Weather Forecast for next 5 days * upto 0830 hours IST of 28th December, 2016 Shallow to Moderate for at isolated places very likely over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	- 1	.!	
Potato	Early vegetative		- keep soil moist for good vegetative growth.
		Early Blight	- Spray Mancozeb at 7-10 days interval against early blight.
Rapeseed/	Vegetative and		- Plant population may be maintained by thinning.
	late sowing		- Irrigation may be given at 30-35 days after sowing if the soil moisture have decline.
			- Top dress with 33 kg Urea/ ha just after irrigation.
			- Late sowing may be done if available soil moisture is as much that impression of finger on the soil when pressed. Mulch the field with straw after sowing.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative and		- Give light irrigation to pea and lentil just to keep soil moist during vegetative
	late sowing		stage.
			- Late sowing may be done.
			- Avoid plucking off of young shoots of pea plant.
		D . D . I	- Plant to plant distance may be maintained by thinning.
		Rust or Powdery mildew	- Spray Propiconazole @ 15ml/ 15 litre water.
		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.
Rabi maize	Land preparation		- Land preparation for sowing rabi maize may be done.
Kabi iliaize	to sowing		- Rabi maize may be sown as intercrop with pulses. 60cm width 40cm high
	to sowing		ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
			-It may be intercropped with rapeseed/ lentil/ pea.
Seeds storage	Post harvest		For seed purpose dry, clean and store the seeds in RC-seed bins after proper
8	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
			weight of seeds. After proper drying, store grains in well ventilated godowns.
			Spray Malathion 1% in godowns.
Horticulture Crops			
Cucurbits	Nursery raising		- Prepare for raising nursery of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays under polyhouse.
Rabi Vegetable	Transplanting and		- Transplant 26-30 days old seedlings (4 leaves stage) cole crops.
(cole crops)	vegetative		- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Broccoli	Transplanting to Vegetative		- Transplanting of 25-30 days old broccoli having 3-4 leafs may be done with 30x45 cm plant spacing.
Tomato	Transplanting and		- Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal were
	1 , 1,		

etc. to avoid bacterial wilt.









			0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply
			Dithane M 45 @ 2g/ litre of water.
Garden pea/ Bro	ad Vegetative		- Light watering may be done to maintain soil moisture.
bean		powdery milde and yellow rust	
Onion	Vegetative		 - 45-60 days old onion seedlings may be transplanted. - Thinning of onion nursery may be followed if there is shortage of land and manpower for transplanting. Give light irrigation during morning and evening hours till the plant get established.
Cauliflower	Transplantir vegetative	ng to	 Transplanting of 26-30 days old seedlings may be done. Apply Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days. * Apply Chloropyriphos (1.5%) dust @25 kg /ha to the cauliflower/ cabbage infested by cut-worms. Light watering may be done to maintain soil moisture.
Coriander	Vegetative		- Light watering may be done to maintain soil moisture.
Spinach (Palak) Vegetative		- Light watering may be done to maintain soil moisture.
Animal Science	S		
Name of the anin	nal		
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	Protect from intense cold. Keep the shed wall covered with hessian cloth during night. Proper ventilation must be provided to protect from moisture inside the shed. Litter must be kept dry.
•		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Sheep/ Goat	All age groups excepts the	Coccidiosis	Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking water for 7 days.
	young ones	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
	All age groups	De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig All age groups except the young ones		Care and management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	 Spray with Skin Heal Spray in sufficient quantity.
	All age groups	Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
	excepts the young ones	B.Q./ H.S/FMD	➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc.
Cattle		Ectoparasites	Butox@ 2ml/lit of water at forth night.
Cattle		Care & management	Oat/ Bersum seeds must be sown from the middle of this month.
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.
		Mastitis	To protect in-milk animals, all their milk should be removed and after milking, their udders should be cleaned with disinfectant.
		Diarrhoea & Acidosis	Limited quantity of green fodder must be given in animal feed.
Fishery: Type of Farming			
Carp/ Catfish culture	Harvesting and stock maintenance		 Stocking of fish for next year may be done in ponds having 1.5m water depth @ 10,000/ ha. Feeds should be provided @ 3 % body weight per day. Well balanced feed fortified with vitamins and minerals should be provided. Apply Lime @ 30-35 kg/ha at 30days interval.
SMS:			- Apply Lime & 50-55 kg/ha at 500ays metval.



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 27th December, 2016

Imphal West

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Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 26th December, 2016)

Observed foggy to mainly cloudy during morning hours and mainly clear to mainly cloudy sky during afternoon hours and no rainfall in the past three days. Maximum temperature range of 23.1 to 24.2 $^{\circ}$ C and a rise in Minimum temperature from 6.9 to 13.1 $^{\circ}$ C with mean relative humidity 92.75 % max and 50.75 % min was recorded in the past four days. The average wind speed range remained 3.3 to 4.1 km/hr.

Weather forecast for next five days of Imphal West $(28^{th}$ December, 2016 to 1^{st} January, 2017)

Likely to have no rain upto Sunday. Dense fog very likely at isolated places over Manipur during on 28^{th} Dec during morning hours and mainly clear sky during afternoon hours with maximum temp. $22-24\,^{\circ}$ C & minimum temp. $6-8\,^{\circ}$ C. Relative humidity may reach up to 95 % (max RH) & 38 % (min RH). The average wind speed may be 4-5 km/hr. Wind direction may be North Easterly during next five days.

- As prophylactic and curative measure against early blight, apply Dichlorovos @

Weather Forecast for next 5 days * upto 0830 hours IST of 28th December, 2016 Shallow to Moderate fog at isolated places very likely over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	I	<u>I</u>	<u> </u>
Potato	Early vegetative		- keep soil moist for good vegetative growth.
		Early Blight	- Spray Mancozeb at 7-10 days interval against early blight.
Rapeseed/	Vegetative and	, J	- Plant population may be maintained by thinning.
Mustard	late sowing		- Irrigation may be given at 30-35 days after sowing if the soil moisture have
			decline.
			- Top dress with 33 kg Urea/ ha just after irrigation.
			- Late sowing may be done if available soil moisture is as much that impression
			of finger on the soil when pressed. Mulch the field with straw after sowing.
		Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water on the infected patches only.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only.
Pulses	Vegetative and		- Give light irrigation to pea and lentil just to keep soil moist during vegetative
	late sowing		stage.
			- Late sowing may be done.
			- Avoid plucking off of young shoots of pea plant.
		D . D . I	- Plant to plant distance may be maintained by thinning.
		Rust or Powdery mildew	- Spray Propiconazole @ 15ml/ 15 litre water.
		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.
Rabi maize	Land preparation		- Land preparation for sowing rabi maize may be done.
	to sowing		- Rabi maize may be sown as intercrop with pulses. 60cm width 40cm high
			ridges along east-west may be prepared after ploughing. Southern face may be
			sown with maize and northern with pea seeds.
G 1 4	D. d.		-It may be intercropped with rapeseed/ lentil/ pea.
Seeds storage	Post harvest		For seed purpose dry, clean and store the seeds in RC-seed bins after proper
	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
			weight of seeds. After proper drying, store grains in well ventilated godowns.
Horticulture Crops			Spray Malathion 1% in godowns.
Cucurbits	Nursery raising		- Prepare for raising nursery of cucurbits like water-melon, cucumber, sponge
Cucui Dits	runsery runsing		gourd, pumpkin, etc. in poly-pouch and trays under polyhouse.
Rabi Vegetable	Transplanting and		- Transplant 26-30 days old seedlings (4 leaves stage) cole crops.
(cole crops)	vegetative		- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @
			2ml/ 10 lit of water.
Broccoli	Transplanting to		- Transplanting of 25-30 days old broccoli having 3-4 leafs may be done with
2100011	Vegetative		30x45 cm plant spacing.
Tomato	Transplanting and		- Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal were
	vegetative		previously grown. It is better to plant it where the previous crop was rice, maize,
			etc. to avoid bacterial wilt.
	1		A 11 d 1 d 1 d 1 D 11 D 11 D 11



Manipur Centre, Lamphelpat, Imphal - 795 004





			0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply
Garden pea/ Broa	ad Vegetative		Dithane M 45 @ 2g/ litre of water. - Light watering may be done to maintain soil moisture.
bean	vegetative	powdery mildev	
bean		and yellow rust	
Onion	Vegetative	and yellow fust	- 45-60 days old onion seedlings may be transplanted.
Onion Vegetative			- Thinning of onion nursery may be followed if there is shortage of land and
			manpower for transplanting. Give light irrigation during morning and evening
			hours till the plant get established.
Cauliflower	Transplantir	ng to	- Transplanting of 26-30 days old seedlings may be done.
	vegetative		- Apply Tracel @ 300gm/ sangam in 30-35days old cauliflower to avoid leaf
			curling, development of purple coloured vein due to absence of micronutrient. If
			required repeat it after 10 days.
			* Apply Chloropyriphos (1.5%) dust @25 kg /ha to the cauliflower/ cabbage
			infested by cut-worms Light watering may be done to maintain soil moisture.
Coriander	Vegetative		- Light watering may be done to maintain soil moisture. - Light watering may be done to maintain soil moisture.
Spinach (Palak)			- Light watering may be done to maintain soil moisture.
Animal Sciences			Zigit watering may be done to maintain son montate.
Name of the anim			
Poultry	All age groups	Care & management	Protect from intense cold. Keep the shed wall covered with hessian cloth during night.
(Chicken/			Proper ventilation must be provided to protect from moisture inside the shed. Litter
Turkey/ Duck)			must be kept dry.
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with
Clares / Clares	A 11	Caratilianta	half the dose at regular interval of 3 weeks. Provide Amprolium Solution to protect from coccidiosis @ 1 gm/litre drinking
Sheep/ Goat	All age groups excepts the	Coccidiosis	water for 7 days.
	young ones	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
		De-worming	De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
	All age groups	Care and management	Mineral mixture be added in feed @ 10-20 g/adult animal.
Pig	except the	Care and management	Treat drinking water with potassium permanganate/ sanitizer.
	young ones		 Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
	All age groups	Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
	excepts the		➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia,
	young ones	B.Q./ H.S/FMD	Foot & Mouth Disease, etc.
Cattle		Ectoparasites	Butox@ 2ml/lit of water at forth night.
Cuttle		Care & management	Oat/ Bersum seeds must be sown from the middle of this month.
		Mastitis	Adequate care must be taken to prevent occurrence of Masitis.
		Mastitis	To protect in-milk animals, all their milk should be removed and after milking, their udders should be cleaned with disinfectant.
		Diarrhoea & Acidosis	Limited quantity of green fodder must be given in animal feed.
T: 1			
Fishery: Type of Farming			
7 F			- Stocking of fish for next year may be done in ponds having 1.5m water depth @
Carp/ Catfish	Harvesting and		10,000/ ha.
culture	stock		- Feeds should be provided @ 3 % body weight per day.
1		1	Wall belonged feed fortified with vitaming and minarals about the marrided
	maintenance		- Well balanced feed fortified with vitamins and minerals should be provided Apply Lime @ 30-35 kg/ha at 30days interval.