

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 27th January, 2017

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 January to 1st February, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 26th January, 2017)

Observed mainly clear sky in past three days. Maximum temperature range of 24.1 to 24.3 $^{\circ}$ C and rise in minimum temperature range of 3.2 to 5.0 $^{\circ}$ C with mean relative humidity 89.0 % max and 36.7 % min was recorded in the past three days. The average wind speed range remained 2.0 to 3.0 km/hr.

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

Likely to have no rain upto Wednesday. Dense fog during morning hours of 29^{th} and 30^{th} Jan and mainly clear sky during day time with maximum temp. $24-25\ ^{\circ}\text{C}$ & minimum temp. 9- $11\ ^{\circ}\text{C}$. Relative humidity may reach up to 98 % (max RH) & 34 % (min RH). The average wind speed may be 4-6 km/hr. Wind direction may be North Easterly to Southerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	•	•	
Potato	Vegetative to flowering		 Give light irrigation to keep soil moist. 40-45 days old plants need light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Late Blight	- As a prophylactic measure against late blight, spray Metalaxyl based fungicide, like Redomil MZ-72 WP @ 2 gm/lit alternately with Mencozeb @ 2gm/lit of water at 14 days interval for 2-3 times.
Rapeseed/ Mustard	Vegetative to flowering and		- Regular monitoring of moisture of soil may be done to ensure good growth. Irrigation may be given if the soil is dry.
	fruiting		- Four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses	Vegetative to flowering and		- Give light irrigation to pea and lentil just to keep soil moist during vegetative stage.
	fruiting	Rust or Powdery mildew	- Spray Propiconazole @ 15ml/ 15 litre water.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi maize	Sowing to vegetative		- Sowing of rabi maize may be done Irrigate field, if the soil is dry.
Seeds storage	Post harvest management		- For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper 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
Horticulture Crops			1% in godowns.
Banana Banana		Sigatoka Leaf Spot	- If Sigatoka Leaf Spot disease is observed then spray Calixin @ 1 ml/ lit of water.
			- 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting.
Mango	Flowering		 Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10 traps per hectare.
			- Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Citrus	After harvesting		Remove water sprouts (tender green shoots emerged from main stem), dried and dead branches after harvesting of fruits. Paste the cut ends with Bordeaux paste.







Cucurbits	Nursery rais	ing			 - Prepare for raising nursery of cucurbits in poly-pouch and trays under low cost poly-house or naturally ventilated polyhouse. - Land preparation for transplanting may be started. 	
French bean and Bhindi	d Land Prepar	Land Preparation			Land preparation for sowing may be started.	
Rabi Vegetable (cole crops)	Head format	tion			- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/10 lit of water.	
Brinjal/ chilli	Nursery to la preparation transplanting	for			- Raise nursery Land preparation for transplanting of brinjal/ chilli may be done.	
Tomato	Vegetative				- Light watering may be done to maintain soil moisture.	
Garden pea/ Broa bean	d Vegetative t flowering				 Light watering may be done to maintain soil moisture. Earthing up and top dressing with 20kg urea per ha followed by watering may be advised to the farmers. 	
			wdery mildew I yellow rust	7	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.	
Onion	Vegetative				 Give light irrigation if the soil is dry. 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/sangam depending upon the fertility. 	
Cauliflower	Vegetative t				- Light watering may be done to maintain soil moisture.	
	head formati		tella, Daimoi ck Moth	nd	Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.	
Coriander	Vegetative				- Light watering may be done to maintain soil moisture For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended	
Spinach (Palak)	Vegetative		+		to protect against soil borne diseases Light watering may be done to maintain soil moisture.	
Animal Sciences					- Light watering may be done to maintain son moisture.	
Name of the anim						
Poultry (Chicken/	All age groups	Care & ma			ect from intense cold. Keep the shed wall covered with hessian cloth during night. ber ventilation must be provided to protect from moisture inside the shed. Litter	
Turkey/ Duck)					t be kept dry.	
		Ranikhet d	8		-1 Strain may be first administered within 7 days of age and second dose may be n at 30days for all birds.	
					₂ B vaccine of 8-9 weeks of age group birds (layers). illed ND virus vaccine of 16-18 weeks of age group birds (layers).	
		Dewormin	σ	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with		
Sheep/ Goat	All age groups	Dewormin	ъ	half the dose at regular interval of 3 weeks.		
•	excepts the young ones	Manageme	nt	- Av	roid keeping animals in a damp area; provide warmth to prevent from pneumonia.	
	All age groups	De-wormin	ng		De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.	
Pig	except the	Care and m	anagement	 Mineral mixture be added in feed @10-20 g/adult animal. 		
rig	young ones				Treat drinking water with potassium permanganate/ sanitizer.	
		3.5%			Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds	
		Mites infes			Spray with Skin Heal Spray in sufficient quantity. Give Piperazine liquid @ 10-15ml orally once only.	
Cattle	All age groups	Deworming	Š		Give Piperazine liquid @ 10-15ml orally once only. If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia,	
Cattle	excepts the	B.Q./ H.S/I	FMD		Foot & Mouth Disease, etc.	
	young ones	Ectoparasit			tox@ 2ml/lit of water at forth nightly interval.	
		Fodder cul	tivation	Fode	der crops should be irrigated every 20-30 days and 20-22 days for oat cultivation.	
Fishery:						
Type of Farming						
					ocking of fish for next year may be done in ponds having 1.5m water depth @	
Carp/ Catfish	Harvesting and			,	00/ ha.	
culture	stock maintenance				eds should be provided @ 3 % body weight per day. ell balanced feed fortified with vitamins and minerals should be provided.	
	manitumante				ply Lime @ 30-35 kg/ha at 30days interval.	
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Manipur Centre, Lamphelpat, Imphal - 795 004





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Chandel

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

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 26th January, 2017)

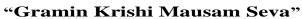
Observed mainly clear sky in past three days. Maximum temperature range of 24.1 to 24.3 $^{\circ}$ C and rise in minimum temperature range of 3.2 to 5.0 $^{\circ}$ C with mean relative humidity 89.0 % max and 36.7 % min was recorded in the past three days. The average wind speed range remained 2.0 to 3.0 km/hr.

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

Likely to have no rain upto Wednesday. Dense fog during morning hours of 29^{th} and 30^{th} Jan and mainly clear sky during day time with maximum temp. 23-25 °C & minimum temp. 7-9 °C. Relative humidity may reach up to 94 % (max RH) & 37 % (min RH). The average wind speed may be 4-6 km/hr. Wind direction may be Westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Potato	Vegetative to flowering		 Give light irrigation to keep soil moist. 40-45 days old plants need light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Late Blight	- As a prophylactic measure against late blight, spray Metalaxyl based fungicide, like Redomil MZ-72 WP @ 2 gm/lit alternately with Mencozeb @ 2gm/lit of water at 14 days interval for 2-3 times.
Rapeseed/ Mustard	Vegetative to flowering and		- Regular monitoring of moisture of soil may be done to ensure good growth. Irrigation may be given if the soil is dry.
	fruiting		- Four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
	Vegetative to flowering and		- Give light irrigation to pea and lentil just to keep soil moist during vegetative stage.
	fruiting	Rust or Powdery mildew	- Spray Propiconazole @ 15ml/ 15 litre water.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi maize	Sowing to vegetative		Sowing of rabi maize may be done.Irrigate field, if the soil is dry.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper 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			
Banana		Sigatoka Leaf Spot	- If Sigatoka Leaf Spot disease is observed then spray Calixin @ 1 ml/ lit of water.
			- 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting.
Mango Flowe	Flowering		 Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10
			traps per hectare Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Citrus	After harvesting		Remove water sprouts (tender green shoots emerged from main stem), dried and dead branches after harvesting of fruits. Paste the cut ends with Bordeaux paste.







Cucurbits	Nu	ırsery rais	ing			- Prepare for raising nursery of cucurbits in poly-pouch and trays under low cost	
						poly-house or naturally ventilated polyhouse Land preparation for transplanting may be started.	
French bean ar Bhindi	nd La	Land Preparation			Land preparation for sowing may be started.		
Rabi Vegetable (cole crops)	Не	ead format	tion			- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/10 lit of water.	
Brinjal/ chilli		rsery to la				- Raise nursery.	
	tra	eparation : nsplanting				- Land preparation for transplanting of brinjal/chilli may be done.	
Tomato		getative				- Light watering may be done to maintain soil moisture.	
Garden pea/ Bro bean		egetative to wering	0			 - Light watering may be done to maintain soil moisture. - Earthing up and top dressing with 20kg urea per ha followed by watering may be advised to the farmers. 	
				powdery mildev and yellow rust	7	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.	
Onion		Vegetative				 Give light irrigation if the soil is dry. 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/sangam depending upon the fertility. 	
Cauliflower		getative t				- Light watering may be done to maintain soil moisture.	
		ad formati	ion	Plutella, Daimond Black Moth		Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.	
Coriander	Ve	Vegetative				 Light watering may be done to maintain soil moisture. For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases. 	
Spinach (Palak) Ve	getative				- Light watering may be done to maintain soil moisture.	
Animal Science							
Name of the anir			1		1		
Poultry (Chicken/ Turkey/ Duck)	All age	e groups	Care &	Care & management		ect from intense cold. Keep the shed wall covered with hessian cloth during night. ber ventilation must be provided to protect from moisture inside the shed. Litter t be kept dry.	
			Ranik	Ranikhet disease		-1 Strain may be first administered within 7 days of age and second dose may be n at 30days for all birds.	
						₂ B vaccine of 8-9 weeks of age group birds (layers). illed ND virus vaccine of 16-18 weeks of age group birds (layers).	
			Dewo	eworming		Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with	
Sheep/ Goat	All age	e groups	Deworming			half the dose at regular interval of 3 weeks.	
-	except young		Manaş	gement		oid keeping animals in a damp area; provide warmth to prevent from pneumonia.	
	All age	e groups	De-wo	orming	> De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.		
Pig	except young		Care a			Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer.	
			Mitaa	infestation		Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds Spray with Skin Heal Spray in sufficient quantity.	
			Dewo			Give Piperazine liquid @ 10-15ml orally once only.	
Cattle	except			H.S/FMD	A	If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc.	
	young	ones		arasites		tox@ 2ml/lit of water at forth nightly interval.	
			r cultivation	Fodo	der crops should be irrigated every 20-30 days and 20-22 days for oat cultivation.		
Fishery:							
Type of Farming		-	1				
Carp/ Catfish	Harvesti	ng and			10,0	ocking of fish for next year may be done in ponds having 1.5m water depth @ 00/ ha.	
culture	stock maintena	ance			- We	eds should be provided @ 3 % body weight per day. ell balanced feed fortified with vitamins and minerals should be provided. eply Lime @ 30-35 kg/ha at 30days interval.	



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Churachandpur

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Observed mainly clear sky in past three days. Maximum temperature range of 24.1 to 24.3 $^{\circ}$ C and rise in minimum temperature range of 3.2 to 5.0 $^{\circ}$ C with mean relative humidity 89.0 % max and 36.7 % min was recorded in the past three days. The average wind speed range remained 2.0 to 3.0 km/hr.

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

Likely to have no rain upto Wednesday. Dense fog during morning hours of 29^{th} and 30^{th} Jan and mainly clear sky during day time with maximum temp. $24-26\,^{\circ}\text{C}$ & minimum temp. 8 - $10\,^{\circ}\text{C}$. Relative humidity may reach up to 98 % (max RH) & 35 % (min RH). The average wind speed may be 4-6 km/hr. Wind direction may be Southerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Potato	Vegetative to flowering		 Give light irrigation to keep soil moist. 40-45 days old plants need light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Late Blight	- As a prophylactic measure against late blight, spray Metalaxyl based fungicide, like Redomil MZ-72 WP @ 2 gm/lit alternately with Mencozeb @ 2gm/lit of water at 14 days interval for 2-3 times.
Rapeseed/ Mustard	Vegetative to flowering and		- Regular monitoring of moisture of soil may be done to ensure good growth. Irrigation may be given if the soil is dry.
	fruiting		- Four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses Vegetative to flowering and	flowering and		- Give light irrigation to pea and lentil just to keep soil moist during vegetative stage.
	fruiting	Rust or Powdery mildew	- Spray Propiconazole @ 15ml/ 15 litre water.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi maize	Sowing to vegetative		Sowing of rabi maize may be done.Irrigate field, if the soil is dry.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper 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	_	_	
Banana		Sigatoka Leaf Spot	- If Sigatoka Leaf Spot disease is observed then spray Calixin @ 1 ml/ lit of water.
			- 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting.
Mango Flower	Flowering		 Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10
			traps per hectare Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Citrus	After harvesting		Remove water sprouts (tender green shoots emerged from main stem), dried and dead branches after harvesting of fruits. Paste the cut ends with Bordeaux paste.



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"Gramin Krishi Mausam Seva"

Land Prepara		- Land preparation for transplanting may be started.
Land Prepara	ation	Land preparation for sowing may be started.
Head format	ion	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
preparation f	for	- Raise nursery Land preparation for transplanting of brinjal/ chilli may be done.
Vegetative		- Light watering may be done to maintain soil moisture.
Vegetative to flowering		- Light watering may be done to maintain soil moisture Earthing up and top dressing with 20kg urea per ha followed by watering may be advised to the farmers.
	and yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/shady area.
Vegetative		 Give light irrigation if the soil is dry. 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/sangam depending upon the fertility.
head formati		depending upon the severity of the infestation.
Vegetative		 Light watering may be done to maintain soil moisture. For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.
Vegetative		- Light watering may be done to maintain soil moisture.
A 11	G 0	
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.
	Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers).
	ъ .	3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
All age groups		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.
_	Management	- Avoid keeping animals in a damp area; provide warmth to prevent from pneumonia.
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.
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. Butox@ 2ml/lit of water at forth nightly interval.
		Fodder crops should be irrigated every 20-30 days and 20-22 days for oat cultivation.
	1 odder curtivation	1 rodder crops should be irrigated every 20-30 days and 20-22 days for out cultivation.
Iarvesting and tock naintenance		 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.
t	Nursery to la preparation of transplanting Vegetative Vegetative Vegetative Vegetative Vegetative Vegetative Vegetative All age groups excepts the young ones All age groups except the young ones All age groups except the young ones	Vegetative to flowering Vegetative Vegetative Vegetative Vegetative Vegetative Vegetative Vegetative All age groups excepts the young ones All age groups except the young ones All age groups excepts the young ones All age groups except the young ones All age groups excepts the young ones All age groups except the young ones All ag



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Senapati

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

Likely to have no rain upto Wednesday. Dense fog during morning hours of 29^{th} and 30^{th} Jan and mainly clear sky during day time with maximum temp. 21-23 °C & minimum temp. 4-7 °C. Relative humidity may reach up to 99 % (max RH) & 31 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be Southerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	<u> </u>	1	
Potato	Vegetative to flowering		Give light irrigation to keep soil moist. 40-45 days old plants need light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
	no wermig	Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Late Blight	- As a prophylactic measure against late blight, spray Metalaxyl based fungicide, like Redomil MZ-72 WP @ 2 gm/lit alternately with Mencozeb @ 2gm/lit of water at 14 days interval for 2-3 times.
Rapeseed/ Mustard	Vegetative to flowering and fruiting		 Regular monitoring of moisture of soil may be done to ensure good growth. Irrigation may be given if the soil is dry. Four bee boxes may be kept for one hectare crop area. Avoid spray of
		White rust Aphid	insecticides in such area. - Spray Dithane M-45 @ 2g/ litre of water at 10 days interval. - Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @
		Hairy caterpillar	2ml/ litre of water on the infected patches. - Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
	Vegetative to flowering and fruiting	Rust or Powdery	 Give light irrigation to pea and lentil just to keep soil moist during vegetative stage. Spray Propiconazole @ 15ml/ 15 litre water.
		mildew Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi maize	Sowing to vegetative		- Sowing of rabi maize may be done Irrigate field, if the soil is dry.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper 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 <i>godowns</i>.
Horticulture Crops			170 III godowns.
Banana		Sigatoka Leaf Spot	- If Sigatoka Leaf Spot disease is observed then spray Calixin @ 1 ml/ lit of water.
			- 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting.
Mango	Flowering		 - Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. - To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. - To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10 traps per hectare.
			- Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Citrus	After harvesting		Remove water sprouts (tender green shoots emerged from main stem), dried and dead branches after harvesting of fruits. Paste the cut ends with Bordeaux paste.







Cucurbits		Nursery raising				 - Prepare for raising nursery of cucurbits in poly-pouch and trays under low cost poly-house or naturally ventilated polyhouse. - Land preparation for transplanting may be started.
French bean ar Bhindi	nd	Land Preparation				Land preparation for sowing may be started.
Rabi Vegetable	,	Head format	ion			- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ $2ml/10$ lit of water.
Brinjal/ chilli		Nursery to la preparation t transplanting	for			- Raise nursery Land preparation for transplanting of brinjal/ chilli may be done.
Tomato		Vegetative				- Light watering may be done to maintain soil moisture.
Garden pea/ Bro bean	ad	Vegetative to flowering	0	powdery mildev	V	 Light watering may be done to maintain soil moisture. Earthing up and top dressing with 20kg urea per ha followed by watering may be advised to the farmers. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow
				and yellow rust	•	rust especially to the crops grown in moist/ shady area.
Onion		Vegetative				 Give light irrigation if the soil is dry. 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/sangam depending upon the fertility.
Cauliflower		Vegetative to head formation		Plutella, Daimor Black Moth	nd	- Light watering may be done to maintain soil moisture. Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.
Coriander		Vegetative				 Light watering may be done to maintain soil moisture. For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.
Spinach (Palak		Vegetative				- Light watering may be done to maintain soil moisture.
Animal Science	S					
Name of the anim		,			1	
Poultry (Chicken/ Turkey/ Duck)	Al	l age groups	Care &	Care & management		ect from intense cold. Keep the shed wall covered with hessian cloth during night, per ventilation must be provided to protect from moisture inside the shed. Litter to be kept dry.
			Ranik	het disease	give 2. R	-1 Strain may be first administered within 7 days of age and second dose may be n at 30days for all birds. 2B vaccine of 8-9 weeks of age group birds (layers).
Sheep/ Goat	Δ1	l age groups	Dewo	rming	V	illed ND virus vaccine of 16-18 weeks of age group birds (layers). 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.
бисер/ Сош	ex	cepts the ung ones	Manag	gement		oid keeping animals in a damp area; provide warmth to prevent from pneumonia.
		l age groups		orming		De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig		cept the ung ones	Care a	nd 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
				infestation		Spray with Skin Heal Spray in sufficient quantity.
	Al	l age groups	Dewo	rming		Give Piperazine liquid @ 10-15ml orally once only.
Cattle	excepts the young ones			H.S/FMD arasites		If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. tox@ 2ml/lit of water at forth nightly interval.
			•	r cultivation		der crops should be irrigated every 20-30 days and 20-22 days for oat cultivation.
Fishery:	•					
Type of Farming						
Carp/ Catfish culture	stocl	vesting and k ntenance			10,0 - Fee - We	ocking of fish for next year may be done in ponds having 1.5m water depth @ 100/ ha. eds should be provided @ 3 % body weight per day. ell balanced feed fortified with vitamins and minerals should be provided. pply Lime @ 30-35 kg/ha at 30days interval.



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 27th January, 2017

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 January to 1st February, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 26th January, 2017)

Observed mainly clear sky in past three days. Maximum temperature range of 24.1 to 24.3 $^{\circ}$ C and rise in minimum temperature range of 3.2 to 5.0 $^{\circ}$ C with mean relative humidity 89.0 % max and 36.7 % min was recorded in the past three days. The average wind speed range remained 2.1 to 2.9 km/hr.

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

Likely to have no rain upto Sunday. Dense fog during morning hours of 29^{th} and 30^{th} Jan and mainly clear sky during day time with maximum temp. $25-27\,^{\circ}$ C & minimum temp. $9-11\,^{\circ}$ C. Relative humidity may reach up to $99\,\%$ (max RH) & $32\,\%$ (min RH). The average wind speed may be 2-5 km/hr. Wind direction may be North Easterly to Southerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Potato	Vegetative to flowering		 Give light irrigation to keep soil moist. 40-45 days old plants need light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Late Blight	- As a prophylactic measure against late blight, spray Metalaxyl based fungicide, like Redomil MZ-72 WP @ 2 gm/lit alternately with Mencozeb @ 2gm/lit of water at 14 days interval for 2-3 times.
Rapeseed/ Mustard	Vegetative to flowering and		- Regular monitoring of moisture of soil may be done to ensure good growth. Irrigation may be given if the soil is dry.
	fruiting		- Four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
	Vegetative to flowering and		- Give light irrigation to pea and lentil just to keep soil moist during vegetative stage.
	fruiting	Rust or Powdery mildew	- Spray Propiconazole @ 15ml/ 15 litre water.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi maize	Sowing to vegetative		Sowing of rabi maize may be done.Irrigate field, if the soil is dry.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper 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 <i>godowns</i>.
Horticulture Crops			
Banana		Sigatoka Leaf Spot	- If Sigatoka Leaf Spot disease is observed then spray Calixin @ 1 ml/ lit of water.
			- 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting.
Mango FI	Flowering		 Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10
			traps per hectare Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Citrus	After harvesting		Remove water sprouts (tender green shoots emerged from main stem), dried and dead branches after harvesting of fruits. Paste the cut ends with Bordeaux paste.







Cucurbits	Nursery rais	ing			 - Prepare for raising nursery of cucurbits in poly-pouch and trays under low cost poly-house or naturally ventilated polyhouse. - Land preparation for transplanting may be started. 	
French bean and Bhindi	d Land Prepar	Land Preparation			Land preparation for sowing may be started.	
Rabi Vegetable (cole crops)	Head format	tion			- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/10 lit of water.	
Brinjal/ chilli	Nursery to la preparation transplanting	for			- Raise nursery Land preparation for transplanting of brinjal/ chilli may be done.	
Tomato	Vegetative				- Light watering may be done to maintain soil moisture.	
Garden pea/ Broa bean	d Vegetative t flowering				 Light watering may be done to maintain soil moisture. Earthing up and top dressing with 20kg urea per ha followed by watering may be advised to the farmers. 	
			wdery mildew I yellow rust	7	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.	
Onion	Vegetative				 Give light irrigation if the soil is dry. 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/sangam depending upon the fertility. 	
Cauliflower	Vegetative t				- Light watering may be done to maintain soil moisture.	
	head formati		tella, Daimoi ck Moth	nd	Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.	
Coriander	Vegetative				- Light watering may be done to maintain soil moisture For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended	
Spinach (Palak)	Vegetative		+		to protect against soil borne diseases Light watering may be done to maintain soil moisture.	
Animal Sciences					- Light watering may be done to maintain son moisture.	
Name of the anim						
Poultry (Chicken/	All age groups	Care & ma			ect from intense cold. Keep the shed wall covered with hessian cloth during night. ber ventilation must be provided to protect from moisture inside the shed. Litter	
Turkey/ Duck)					t be kept dry.	
		Ranikhet d	8		-1 Strain may be first administered within 7 days of age and second dose may be n at 30days for all birds.	
					₂ B vaccine of 8-9 weeks of age group birds (layers). illed ND virus vaccine of 16-18 weeks of age group birds (layers).	
		Dewormin	σ	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with		
Sheep/ Goat	All age groups	Dewormin	ъ	half the dose at regular interval of 3 weeks.		
•	excepts the young ones	Manageme	nt	- Av	roid keeping animals in a damp area; provide warmth to prevent from pneumonia.	
	All age groups	De-wormin	ng		De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.	
Pig	except the	Care and m	anagement	 Mineral mixture be added in feed @10-20 g/adult animal. 		
rig	young ones				Treat drinking water with potassium permanganate/ sanitizer.	
		3.5%			Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds	
		Mites infes			Spray with Skin Heal Spray in sufficient quantity. Give Piperazine liquid @ 10-15ml orally once only.	
Cattle	All age groups	Deworming	Š		Give Piperazine liquid @ 10-15ml orally once only. If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia,	
Cattle	excepts the	B.Q./ H.S/I	FMD		Foot & Mouth Disease, etc.	
	young ones	Ectoparasit			tox@ 2ml/lit of water at forth nightly interval.	
		Fodder cul	tivation	Fode	der crops should be irrigated every 20-30 days and 20-22 days for oat cultivation.	
Fishery:						
Type of Farming						
					ocking of fish for next year may be done in ponds having 1.5m water depth @	
Carp/ Catfish	Harvesting and			,	00/ ha.	
culture	stock maintenance				eds should be provided @ 3 % body weight per day. ell balanced feed fortified with vitamins and minerals should be provided.	
	manitumante				ply Lime @ 30-35 kg/ha at 30days interval.	
		l		, 1 p	pri zimo o oo ng na acoomjo mortan	



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 27th January, 2017

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 January to 1st February, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 26th January, 2017)

Observed mainly clear sky in past three days. Maximum temperature range of 24.1 to 24.3 $^{\circ}$ C and rise in minimum temperature range of 3.2 to 5.0 $^{\circ}$ C with mean relative humidity 89.0 % max and 36.7 % min was recorded in the past three days. The average wind speed range remained 2.0 to 3.0 km/hr.

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

Likely to have no rain upto Wednesday. Dense fog during morning hours of 29^{th} and 30^{th} Jan and mainly clear sky during day time with maximum temp. 23-25 °C & minimum temp. 8 - 10 °C. Relative humidity may reach up to 97 % (max RH) & 34 % (min RH). The average wind speed may be 4-6 km/hr. Wind direction may be North Easterly to Southerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Potato	Vegetative to flowering		 Give light irrigation to keep soil moist. 40-45 days old plants need light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Late Blight	- As a prophylactic measure against late blight, spray Metalaxyl based fungicide, like Redomil MZ-72 WP @ 2 gm/lit alternately with Mencozeb @ 2gm/lit of water at 14 days interval for 2-3 times.
Rapeseed/ Mustard	Vegetative to flowering and		- Regular monitoring of moisture of soil may be done to ensure good growth. Irrigation may be given if the soil is dry.
	fruiting		- Four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses	Vegetative to flowering and		- Give light irrigation to pea and lentil just to keep soil moist during vegetative stage.
	fruiting	Rust or Powdery mildew	- Spray Propiconazole @ 15ml/ 15 litre water.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi maize	Sowing to vegetative		- Sowing of rabi maize may be done Irrigate field, if the soil is dry.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper 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 <i>godowns</i> .
Horticulture Crops	1		1 0 1
Banana		Sigatoka Leaf Spot	- If Sigatoka Leaf Spot disease is observed then spray Calixin @ 1 ml/ lit of water.
			- 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting.
Mango	Flowering		 Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10
			traps per hectare Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Citrus	After harvesting		Remove water sprouts (tender green shoots emerged from main stem), dried and dead branches after harvesting of fruits. Paste the cut ends with Bordeaux paste.







Cucurbits	Nursery rais	Nursery raising			 - Prepare for raising nursery of cucurbits in poly-pouch and trays under low cost poly-house or naturally ventilated polyhouse. - Land preparation for transplanting may be started.
French bean an Bhindi	d Land Prepa	Land Preparation			Land preparation for sowing may be started.
Rabi Vegetable (cole crops)					- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ $2ml/10$ lit of water.
Brinjal/ chilli	Nursery to preparation transplanting	for			Raise nursery.Land preparation for transplanting of brinjal/ chilli may be done.
Tomato	Vegetative				- Light watering may be done to maintain soil moisture.
Garden pea/ Broabean	Ad Vegetative flowering	to			 Light watering may be done to maintain soil moisture. Earthing up and top dressing with 20kg urea per ha followed by watering may be advised to the farmers.
			powdery mildev and yellow rust	V	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Onion	Vegetative				 Give light irrigation if the soil is dry. 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/sangam depending upon the fertility.
Cauliflower	Vegetative head format		Plutella, Daimor Black Moth	nd	- Light watering may be done to maintain soil moisture. Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.
Coriander	Vegetative		DIACK MOUI		 Light watering may be done to maintain soil moisture. For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.
Spinach (Palak) Vegetative				- Light watering may be done to maintain soil moisture.
Animal Sciences	S	•			
Name of the anin		_			
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care &	Care & management		ect from intense cold. Keep the shed wall covered with hessian cloth during night. ber ventilation must be provided to protect from moisture inside the shed. Litter t be kept dry.
		Ranikh	Ranikhet disease		-1 Strain may be first administered within 7 days of age and second dose may be n at 30days for all birds. ₂ B vaccine of 8-9 weeks of age group birds (layers).
				3. K	illed ND virus vaccine of 16-18 weeks of age group birds (layers).
Sheep/ Goat	All age groups		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.
	excepts the young ones				oid keeping animals in a damp area; provide warmth to prevent from pneumonia.
	All age groups	De-wo			De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	except the young ones	Care a	nd 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 ago groves	Dewor		>	Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones		H.S/FMD		If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc.
	Jouing Offices		arasites		tox@ 2ml/lit of water at forth nightly interval.
77: 1		Fodder	r cultivation	Fode	der crops should be irrigated every 20-30 days and 20-22 days for oat cultivation.
Fishery:					
Type of Farming		1		C+-	ocking of fish for next year may be done in ponds having 1.5m water depth @
Carp/ Catfish culture	Harvesting and stock maintenance			10,0 - Fee - We	cking of fish for next year may be done in ponds having 1.5m water depth @ 00/ ha. eds should be provided @ 3 % body weight per day. ell balanced feed fortified with vitamins and minerals should be provided. eply Lime @ 30-35 kg/ha at 30days interval.



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 27th January, 2017

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 January to 1st February, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 26th January, 2017)

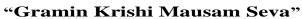
Observed mainly clear sky in past three days. Maximum temperature range of 24.1 to 24.3 $^{\circ}$ C and rise in minimum temperature range of 3.2 to 5.0 $^{\circ}$ C with mean relative humidity 89.0 % max and 36.7 % min was recorded in the past three days. The average wind speed range remained 2.0 to 3.0 km/hr.

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

Likely to have no rain upto Wednesday. Dense fog during morning hours of 29^{th} and 30^{th} Jan and mainly clear sky during day time with maximum temp. 21-23 °C & minimum temp. 4-7 °C. Relative humidity may reach up to 95 % (max RH) & 34 % (min RH). The average wind speed may be 3-5 km/hr. Wind direction may be Southerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Potato	Vegetative to flowering		 Give light irrigation to keep soil moist. 40-45 days old plants need light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Late Blight	- As a prophylactic measure against late blight, spray Metalaxyl based fungicide, like Redomil MZ-72 WP @ 2 gm/lit alternately with Mencozeb @ 2gm/lit of water at 14 days interval for 2-3 times.
Rapeseed/ Mustard	Vegetative to flowering and		- Regular monitoring of moisture of soil may be done to ensure good growth. Irrigation may be given if the soil is dry.
	fruiting		- Four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses	Vegetative to flowering and		- Give light irrigation to pea and lentil just to keep soil moist during vegetative stage.
	fruiting	Rust or Powdery mildew	- Spray Propiconazole @ 15ml/ 15 litre water.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi maize	Sowing to vegetative		Sowing of rabi maize may be done.Irrigate field, if the soil is dry.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper 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			
Banana		Sigatoka Leaf Spot	- If Sigatoka Leaf Spot disease is observed then spray Calixin @ 1 ml/ lit of water.
			- 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting.
Mango	Flowering		 Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10
			traps per hectare Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Citrus	After harvesting		Remove water sprouts (tender green shoots emerged from main stem), dried and dead branches after harvesting of fruits. Paste the cut ends with Bordeaux paste.







Cucurbits	Nursery rais	ing	1	- Prepare for raising nursery of cucurbits in poly-pouch and trays under low cost poly-house or naturally ventilated polyhouse Land preparation for transplanting may be started.	
French bean and Bhindi	d Land Prepar	ation		Land preparation for sowing may be started.	
Rabi Vegetable (cole crops)	Head format	tion		- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.	
Brinjal/ chilli	Nursery to la preparation transplanting	for		- Raise nursery. - Land preparation for transplanting of brinjal/ chilli may be done.	
Tomato	Vegetative			- Light watering may be done to maintain soil moisture.	
Garden pea/ Broa bean	Vegetative t flowering	o powdery milde		 Light watering may be done to maintain soil moisture. Earthing up and top dressing with 20kg urea per ha followed by watering may be advised to the farmers. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow 	
		and yellow rust		rust especially to the crops grown in moist/ shady area.	
Onion	Vegetative			- Give light irrigation if the soil is dry 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/sangam depending upon the fertility.	
Cauliflower	Vegetative t head formati		nd	- Light watering may be done to maintain soil moisture. Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.	
Coriander	Vegetative			 Light watering may be done to maintain soil moisture. For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases. 	
Spinach (Palak)	Vegetative			- Light watering may be done to maintain soil moisture.	
Animal Sciences	1				
Name of the anim		1	T		
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.		
		Ranikhet disease	given 2. R ₂ E	Strain may be first administered within 7 days of age and second dose may be at 30days for all birds. 3 vaccine of 8-9 weeks of age group birds (layers).	
			3. Kill	led ND virus vaccine of 16-18 weeks of age group birds (layers).	
Sheep/ Goat	All age groups	Deworming	ha	se Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with alf the dose at regular interval of 3 weeks.	
	excepts the young ones	Management		id keeping animals in a damp area; provide warmth to prevent from pneumonia.	
	All age groups	De-worming		e-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.	
Pig	except the young ones			Ineral mixture be added in feed @10-20 g/adult animal. reat drinking water with potassium permanganate/ sanitizer. rovide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds	
		Mites infestation		pray with Skin Heal Spray in sufficient quantity.	
	All age groups	Deworming		live Piperazine liquid @ 10-15ml orally once only.	
Cattle	excepts the young ones	B.Q./ H.S/FMD Ectoparasites	F	not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, oot & Mouth Disease, etc. ox@ 2ml/lit of water at forth nightly interval.	
		Fodder cultivation		er crops should be irrigated every 20-30 days and 20-22 days for oat cultivation.	
Fishery:	1	1		garanting to the target and to the contributions	
Type of Farming					
Carp/ Catfish culture	Harvesting and stock maintenance		10,000 - Feed	king of fish for next year may be done in ponds having 1.5m water depth @ 0/ ha. Is should be provided @ 3 % body weight per day. I balanced feed fortified with vitamins and minerals should be provided.	
				ly Lime @ 30-35 kg/ha at 30days interval.	



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 27th January, 2017

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 January to 1st February, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 26th January, 2017)

Observed mainly clear sky in past three days. Maximum temperature range of 24.1 to 24.3 $^{\circ}$ C and rise in minimum temperature range of 3.2 to 5.0 $^{\circ}$ C with mean relative humidity 89.0 % max and 36.7 % min was recorded in the past three days. The average wind speed range remained 2.0 to 3.0 km/hr.

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

Likely to have no rain upto Wednesday. Dense fog during morning hours of 29^{th} and 30^{th} Jan and mainly clear sky during day time with maximum temp. $24-26\ ^{\circ}\text{C}$ & minimum temp. 9- $11\ ^{\circ}\text{C}$. Relative humidity may reach up to 99 % (max RH) & 31 % (min RH). The average wind speed may be 2-5 km/hr. Wind direction may be North Easterly to Southerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	•	•	
Potato	Vegetative to flowering		 Give light irrigation to keep soil moist. 40-45 days old plants need light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Late Blight	- As a prophylactic measure against late blight, spray Metalaxyl based fungicide, like Redomil MZ-72 WP @ 2 gm/lit alternately with Mencozeb @ 2gm/lit of water at 14 days interval for 2-3 times.
Rapeseed/ Mustard	Vegetative to flowering and		- Regular monitoring of moisture of soil may be done to ensure good growth. Irrigation may be given if the soil is dry.
	fruiting		- Four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses	Vegetative to flowering and		- Give light irrigation to pea and lentil just to keep soil moist during vegetative stage.
	fruiting	Rust or Powdery mildew	- Spray Propiconazole @ 15ml/ 15 litre water.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi maize	Sowing to vegetative		- Sowing of rabi maize may be done Irrigate field, if the soil is dry.
Seeds storage	Post harvest management		- For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper 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
Hantiaultuna Cuans			1% in godowns.
Horticulture Crops Banana		Sigatoka Leaf Spot	- If Sigatoka Leaf Spot disease is observed then spray Calixin @ 1 ml/ lit of water.
			- 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting.
Mango	Flowering		 Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10 traps per hectare.
			- Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Citrus	After harvesting		Remove water sprouts (tender green shoots emerged from main stem), dried and dead branches after harvesting of fruits. Paste the cut ends with Bordeaux paste.







Cucurbits	Nursery rais	sing	 - Prepare for raising nursery of cucurbits in poly-pouch and trays under low cost poly-house or naturally ventilated polyhouse. - Land preparation for transplanting may be started. 	
French bean an Bhindi	Land Prepar	ration	Land preparation for sowing may be started.	
Rabi Vegetable (cole crops)			- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.	
Brinjal/ chilli	Nursery to 1		- Raise nursery.	
	preparation transplanting		- Land preparation for transplanting of brinjal/ chilli may be done.	
Tomato	Vegetative	5	- Light watering may be done to maintain soil moisture.	
Garden pea/ Bro		0.0	- Light watering may be done to maintain soil moisture.	
bean	flowering		- Earthing up and top dressing with 20kg urea per ha followed by watering may be advised to the farmers.	
		powdery milde and yellow rus	rust especially to the crops grown in moist/ shady area.	
Onion Vegetative			- Give light irrigation if the soil is dry 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/	
Cauliflower	Vegetative t	0	sangam depending upon the fertility. - Light watering may be done to maintain soil moisture.	
Caulillower	head format		ond Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval	
		Black Moth	depending upon the severity of the infestation.	
Coriander	Vegetative		- Light watering may be done to maintain soil moisture.	
			- For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.	
Spinach (Palak) Vegetative		- Light watering may be done to maintain soil moisture.	
Animal Science	, -		Light watering may be done to maintain son moistare.	
Name of the anin				
Poultry (Chicken/	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	
Turkey/ Duck)		Ranikhet disease	must be kept dry. 1. F-1 Strain may be first administered within 7 days of age and second dose may be	
		Kamknet disease	given at 30days for all birds.	
			2. R ₂ B vaccine of 8-9 weeks of age group birds (layers).	
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).	
Sheep/ Goat	All age groups	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	excepts the	Management	- Avoid keeping animals in a damp area; provide warmth to prevent from pneumonia.	
	young ones			
	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	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. 	
		Deworming	Sive Piperazine liquid @ 10-15ml orally once only.	
Cattle	All age groups		 If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, 	
	excepts the young ones	B.Q./ H.S/FMD	Foot & Mouth Disease, etc.	
	Jouing ones	Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.	
T:1		Fodder cultivation	Fodder crops should be irrigated every 20-30 days and 20-22 days for oat cultivation.	
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.	
			- Apply Lime @ 30-35 kg/ha at 30days interval.	



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 27th January, 2017

Imphal West

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

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 26th January, 2017)

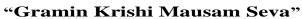
Observed mainly clear sky in past three days. Maximum temperature range of 24.1 to 24.3 $^{\circ}$ C and rise in minimum temperature range of 3.2 to 5.0 $^{\circ}$ C with mean relative humidity 89.0 % max and 36.7 % min was recorded in the past three days. The average wind speed range remained 2.1 to 2.9 km/hr.

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

Likely to have no rain upto Sunday. Dense fog during morning hours of 29^{th} and 30^{th} Jan and mainly clear sky during day time with maximum temp. $24-26\ ^{\circ}$ C & minimum temp. 8- $10\ ^{\circ}$ C. Relative humidity may reach up to 99 % (max RH) & 31 % (min RH). The average wind speed may be 2-5 km/hr. Wind direction may be North Easterly to Southerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Potato	Vegetative to flowering		 Give light irrigation to keep soil moist. 40-45 days old plants need light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
		Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
		Late Blight	- As a prophylactic measure against late blight, spray Metalaxyl based fungicide, like Redomil MZ-72 WP @ 2 gm/lit alternately with Mencozeb @ 2gm/lit of water at 14 days interval for 2-3 times.
Rapeseed/ Mustard	Vegetative to flowering and		- Regular monitoring of moisture of soil may be done to ensure good growth. Irrigation may be given if the soil is dry.
	fruiting		- Four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses	Vegetative to flowering and fruiting		- Give light irrigation to pea and lentil just to keep soil moist during vegetative stage.
		Rust or Powdery mildew	- Spray Propiconazole @ 15ml/ 15 litre water.
		Aphid	- Spray Imidachloprid 17.8 SL @ 7-10ml/ 15 litre of water against aphid.
Rabi maize	Sowing to vegetative		Sowing of rabi maize may be done.Irrigate field, if the soil is dry.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper 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 <i>godowns</i>.
Horticulture Crops			1/0 III gouowns.
Banana		Sigatoka Leaf Spot	- If Sigatoka Leaf Spot disease is observed then spray Calixin @ 1 ml/ lit of water.
			- 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting.
Mango	Flowering		 Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10
			traps per hectare Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Citrus	After harvesting		Remove water sprouts (tender green shoots emerged from main stem), dried and dead branches after harvesting of fruits. Paste the cut ends with Bordeaux paste.







Cucurbits		Nursery raising				 Prepare for raising nursery of cucurbits in poly-pouch and trays under low cost poly-house or naturally ventilated polyhouse. Land preparation for transplanting may be started.
French bean ar Bhindi	nd	Land Preparation				Land preparation for sowing may be started.
Rabi Vegetable (cole crops))	Head formation				- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Brinjal/ chilli	Nursery to land preparation for transplanting		for			- Raise nursery Land preparation for transplanting of brinjal/ chilli may be done.
Tomato		Vegetative				- Light watering may be done to maintain soil moisture.
Garden pea/ Bro bean	arden pea/ Broad Vegetative to		0	powdery mildew		 Light watering may be done to maintain soil moisture. Earthing up and top dressing with 20kg urea per ha followed by watering may be advised to the farmers. Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow
				and yellow rust		rust especially to the crops grown in moist/ shady area.
Onion	Pnion Vegetative					 Give light irrigation if the soil is dry. 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/sangam depending upon the fertility.
Cauliflower	Vegetative t head formati			Plutella, Daimond Black Moth		- Light watering may be done to maintain soil moisture. Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.
Coriander	Coriander Vegetative					 Light watering may be done to maintain soil moisture. For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.
Spinach (Palak	()	Vegetative				- Light watering may be done to maintain soil moisture.
Animal Science	S					
Name of the anim						
Poultry (Chicken/ Turkey/ Duck)		All age groups Care & manag Ranikhet disea		& management	Prop	ect from intense cold. Keep the shed wall covered with hessian cloth during night. ber ventilation must be provided to protect from moisture inside the shed. Litter t be kept dry.
				giv 2. I		-1 Strain may be first administered within 7 days of age and second dose may be in at 30days for all birds. 2B vaccine of 8-9 weeks of age group birds (layers).
			Darre		3. K	illed ND virus vaccine of 16-18 weeks of age group birds (layers). Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with
Sheep/ Goat	Δ1	ll age groups	Deworming			half the dose at regular interval of 3 weeks.
бисер/ Сош	ex			nagement - Av		oid keeping animals in a damp area; provide warmth to prevent from pneumonia.
		ll 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				>		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.
	Al	ll age groups	Deworming			Give Piperazine liquid @ 10-15ml orally once only.
Cattle	ex	excepts the young ones		B.Q./ H.S/FMD Ectoparasites		If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. tox@ 2ml/lit of water at forth nightly interval.
						der crops should be irrigated every 20-30 days and 20-22 days for oat cultivation.
Fishery:			2 0000			2
Type of Farming						
, F					- Sto	ocking of fish for next year may be done in ponds having 1.5m water depth @
Carp/ Catfish culture Harvesting and stock maintenance				10,0 - Fee	100/ ha. eds should be provided @ 3 % body weight per day. ell balanced feed fortified with vitamins and minerals should be provided. oply Lime @ 30-35 kg/ha at 30days interval.	