

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 2nd January, 2015

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 3rd to 7th January, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th December, 2014 to 1st January, 2015)

During past three days sky was partly cloudy to cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 21.2-22.7 °C, range of minimum temperature observed was 6.9-13.0 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 60.7 % respectively. The average wind speed range was 0.7-0.9 km/hr.

Weather forecast for next five days of Churachandpur (3rd to 7th January, 2014)

There may be light rain at isolated places on Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of $21.0-24.0~^{\circ}\text{C}$ & minimum temp. $5.0-9.0~^{\circ}\text{C}$. Relative humidity may reach upto 100 % (maximum RH) & 76 % (minimum RH). The average wind speed may be 2-5 km/hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 5th January, 2014 Fog would occur at many places over Manipur.

Weather Outlook for subsequent 4 days from 05th January 2015 to 09th January 2015

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1	<u> </u>	
Rapeseed/	Vegetative to		- If facility is available give irrigation to keep soil moist.
mustard	flowering	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 (Field pea/	Vegetative		- If facility is available give irrigation to keep soil moist during vegetative stage for better yield.
Lentil)		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid on the infected patches only. For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Potato	Vegetative		- Give light irrigation to attain optimum soil moisture.
10000	regement	Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Cauliflower, Cabbage & Broccoli	Transplanting		After preparation for transplanting, 850 gm Urea, 2 kg DAP and 1kg MOP along with 40 kg FYM should be incorporated with the soil in an area of 100 m ² and another 850 g Urea may be top dressed at head/ curd formation stage. Transplant at a spacing of 60 cm x 60 cm for hybrid varieties of cabbage (like Rareball, Green Hero) and cauliflower (White Flash, Sweetha).
	Head formation stage	Plutella, Daimond, Black Moth	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water at 7 days interval.
	to harvesting	Leaf eating caterpillar	Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cauliflower	Curd formation stage	Whip tail and Chlorosis	- Spray Tracel @ 5g/ litre of water if leaves fail to develop normally/ curl towards the terminal end or chlorosis (whitening/ yellowing of leaves) is observed.



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Local cucum (Kalenthabi		on to	- Land preparation for sowing of local cucumber (kalen thabi) may be started.		
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.		
		Leaf eating caterpillar, thrips mite.	- Spray Confidor @ 0.5 ml/ lit of water.		
Animal Science		B: /: C			
Name of the ani	oro will stage	Disease/ infestation	Agro-meteorological advisories		
Poultry	All susceptible age groups (as and who		Give Coximar @ 2g/lit of drinking water for 5-7 days.		
	required)	Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.		
			 2. R₂B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). 		
		Management	 - Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking. - Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 		
			days along with vitamin A, vitamin B & vitamin C. As the temperature is becoming low during night time protect birds from		
			cold by using polythene sheet or hessian cloth.		
Sheep/ Goat	Above 3 months o age (as and when	f Ectoparasite	Use Butox liq. @ 2ml/4 litres of water and wash the animal with the solution.		
	required)	F.M.D.	- Vaccinate against F.M.D.		
		Deworming	- Give Albomac suspension @ 5ml per adult.		
Pig	Above 3 months o	f Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.		
	age (as and when	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.		
	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
Cattle / Buffal		f Deworming	Deworm using TolzanF @ 100ml/300kg body weight.		
Mithun	age (as and when required)	F.M.D.	- Vaccinate against F.M.D.		
	required)	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.		
Fishery:	·				
Type of	Stage &	Agro-metrological advisor	ries		
Farming Carp/	Management Stock maintenance	- Stock fish for next se	eason and for this practices mentioned below may be done in small scale		
Carp/ Catfish	STOCK MAINTENANCE		 Stock fish for next season and for this practices mentioned below may be done in small scale. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5 m. 		
culture					
			vided 1-2 times a day @ 2-3% body weight per day.		
			fortified with vitamins and minerals should be provided.		
			4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 2nd January, 2015

Imphal-East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 3rd to 7th January, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th December, 2014 to 1st January, 2015)

During past three days sky was partly cloudy to cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 21.2-22.7 °C, range of minimum temperature observed was 6.9-13.0 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 60.7 % respectively. The average wind speed range was 0.7-0.9 km/hr.

Weather forecast for next five days of Imphal-East (3rd to 7th January, 2014)

There may be light rain at isolated places on Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of $22.0-24.0~^{\circ}\text{C}$ & minimum temp. $6.0-10.0~^{\circ}\text{C}$. Relative humidity may reach upto 100~% (maximum RH) & 70 % (minimum RH). The average wind speed may be 0-2~km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 5th January, 2014 Fog would occur at many places over Manipur.

Weather Outlook for subsequent 4 days from 05th January 2015 to 09th January 2015

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	ı	<u>, </u>	
Rapeseed/	Vegetative to		- If facility is available give irrigation to keep soil moist.
mustard	flowering	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 (Field pea/	Vegetative		- If facility is available give irrigation to keep soil moist during vegetative stage for better yield.
Lentil)		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid on the infected patches only. For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Potato	Vegetative		- Give light irrigation to attain optimum soil moisture.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops		<u> </u>	
Cauliflower, Cabbage & Broccoli	Transplanting		After preparation for transplanting, 850 gm Urea, 2 kg DAP and 1kg MOP along with 40 kg FYM should be incorporated with the soil in an area of 100 m ² and another 850 g Urea may be top dressed at head/ curd formation stage. Transplant at a spacing of 60 cm x 60 cm for hybrid varieties of cabbage (like Rareball, Green Hero) and cauliflower (White Flash, Sweetha).
	Head formation	Plutella, Daimond,	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water
	stage	Black Moth	at 7 days interval.
	to harvesting	Leaf eating caterpillar	Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cauliflower	Curd formation stage	Whip tail and Chlorosis	- Spray Tracel @ 5g/ litre of water if leaves fail to develop normally/ curl towards the terminal end or chlorosis (whitening/ yellowing of leaves) is observed.



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Local cucur (Kalenthab		d preparation t	to	- Land preparation for sowing of local cucumber (kalen thabi) may be started.
Citrus	For	nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
			Leaf eating caterpillar, thrips mite.	- Spray Confidor @ 0.5 ml/ lit of water.
Animal Sci				
Name of the an	imal Growt	h stage	Disease/ infestation	Agro-meteorological advisories
Poultry		sceptible age	Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
	require	s (as and when ed)	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). Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
			Management	 Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking. Increase energy feed upto 5% (like maize, rice bran, etc.). Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin A, vitamin B & vitamin C. As the temperature is becoming low during night time protect birds from cold by using polythene sheet or hessian cloth.
Sheep/ Goat Above 3 months or age (as and when			Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
	require	required)	F.M.D.	- Vaccinate against F.M.D.
			Deworming	- Give Albomac suspension @ 5ml per adult.
Pig		Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
	υ ,		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
	require		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffa		3 months of	Deworming	Deworm using TolzanF @ 100ml/300kg body weight.
Mithun		and when	F.M.D.	- Vaccinate against F.M.D.
	require	ea)	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.
Fishery:			I	J
Type of	Stage &	1	Agro-metrological advisori	es
Farming Corn/			Stock fish for nove so	ason and for this practices mentioned below may be done in small scale
Carp/ Catfish			Stock fish for next season and for this practices mentioned below may be done in small scale.Ponds should be free from unwanted vegetation and insects and water depth should be	
culture			maintained at 1.0 - 1.5	
Culture				ided 1-2 times a day @ 2-3% body weight per day.
				ortified with vitamins and minerals should be provided.
				Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.



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MANIPUR BULLETIN 2nd January, 2015

Imphal-West

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Weather forecast for next five days of Imphal-West (3rd to 7th January, 2014)

There may be light rain at isolated places on Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of $22.0-25.0~^{\circ}\text{C}$ & minimum temp. $6.0-10.0~^{\circ}\text{C}$. Relative humidity may reach upto 100~% (maximum RH) & 66~% (minimum RH). The average wind speed may be 2~km/hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 5th January, 2014 Fog would occur at many places over Manipur.

Weather Outlook for subsequent 4 days from 05th January 2015 to 09th January 2015

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/	Vegetative to		- If facility is available give irrigation to keep soil moist.
mustard	flowering	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 (Field pea/	Vegetative		- If facility is available give irrigation to keep soil moist during vegetative stage for better yield.
Lentil)		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid on the infected patches only. For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Potato	Vegetative		- Give light irrigation to attain optimum soil moisture.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	1		
Cauliflower, Cabbage & Broccoli	Transplanting		After preparation for transplanting, 850 gm Urea, 2 kg DAP and 1kg MOP along with 40 kg FYM should be incorporated with the soil in an area of 100 m ² and another 850 g Urea may be top dressed at head/ curd formation stage. Transplant at a spacing of 60 cm x 60 cm for hybrid varieties of cabbage (like Rareball, Green Hero) and cauliflower (White Flash, Sweetha).
	Head formation stage	Plutella, Daimond, Black Moth	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water at 7 days interval.
	to harvesting	Leaf eating caterpillar	Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cauliflower	Curd formation stage	Whip tail and Chlorosis	- Spray Tracel @ 5g/ litre of water if leaves fail to develop normally/ curl towards the terminal end or chlorosis (whitening/ yellowing of leaves) is observed.



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Local cucum (Kalenthabi)		n to	- Land preparation for sowing of local cucumber (kalen thabi) may be started.	
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.	
		Leaf eating caterpillar, thrips mite.	- Spray Confidor @ 0.5 ml/ lit of water.	
Animal Scie				
Name of the anii	oro will stage	Disease/ infestation	Agro-meteorological advisories	
Poultry	All susceptible age groups (as and whe	Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.	
	required)	Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.	
			 2. R₂B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). 	
		Management	 Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking. Increase energy feed upto 5% (like maize, rice bran, etc.). Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 	
			days along with vitamin A, vitamin B & vitamin C. As the temperature is becoming low during night time protect birds from	
Sheep/ Goat Above 3 months of age (as and when		Ectoparasite	cold by using polythene sheet or hessian cloth. Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.	
	required)	F.M.D.	- Vaccinate against F.M.D.	
		Deworming	- Give Albomac suspension @ 5ml per adult.	
Pig	Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
	age (as and when required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buffalo		Deworming	Deworm using TolzanF @ 100ml/300kg body weight.	
Mithun	age (as and when	F.M.D.	- Vaccinate against F.M.D.	
	required)	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.	
Fishery:				
Type of	Stage &	Agro-metrological advisor	ies	
Farming Carp/	Management Stock maintenance	- Stock fish for next se	ason and for this practices mentioned below may be done in small scale.	
Cat p/ Catfish	Stock maintenance	- Stock fish for next season and for this practices mentioned below may be done in small scale. - Ponds should be free from unwanted vegetation and insects and water depth should be		
culture		maintained at 1.0 - 1.5		
-			ided 1-2 times a day @ 2-3% body weight per day.	
		- Well balanced feed for	ortified with vitamins and minerals should be provided.	
		- Apply Green AQ @ 4	4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	



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



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MANIPUR BULLETIN 2nd January, 2015

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 3rd to 7th January, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th December, 2014 to 1st January, 2015)

During past three days sky was partly cloudy to cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 21.2-22.7 °C, range of minimum temperature observed was 6.9-13.0 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 60.7 % respectively. The average wind speed range was 0.7-0.9 km/hr.

Weather forecast for next five days of Senapati (3rd to 7th January, 2014)

There may be light rain at isolated places on Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 19.0-23.0 °C & minimum temp. 3.0-7.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 66 % (minimum RH). The average wind speed may be 0-2 km/hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 5th January, 2014 Fog would occur at many places over Manipur.

Weather Outlook for subsequent 4 days from 05th January 2015 to 09th January 2015

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		J.	
Rapeseed/	Vegetative to		- If facility is available give irrigation to keep soil moist.
mustard	flowering	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 (Field pea/	Vegetative		- If facility is available give irrigation to keep soil moist during vegetative stage for better yield.
Lentil)		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid on the infected patches only. For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			After proper drying, store grams/ seeds in wen ventuated godowns.
Cauliflower, Cabbage & Broccoli	Transplanting		After preparation for transplanting, 850 gm Urea, 2 kg DAP and 1kg MOP along with 40 kg FYM should be incorporated with the soil in an area of 100 m ² and another 850 g Urea may be top dressed at head/ curd formation stage. Transplant at a spacing of 60 cm x 60 cm for hybrid varieties of cabbage (like Rareball, Green Hero) and cauliflower (White Flash, Sweetha).
	Head formation stage	Plutella, Daimond, Black Moth	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water at 7 days interval.
	to harvesting	Leaf eating caterpillar	Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cauliflower	Curd formation stage	Whip tail and Chlorosis	- Spray Tracel @ 5g/ litre of water if leaves fail to develop normally/ curl towards the terminal end or chlorosis (whitening/ yellowing of leaves) is observed.



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"Integrated Agromet Advisory Services"

Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.	
		Leaf eating caterpillar, thrips of mite.	- Spray Confidor @ 0.5 ml/ lit of water.	
Animal Sc	iences			
Name of the ar	nimal Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry	All susceptible age	Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.	
	groups (as and when required)	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). Killed ND virus vaccine of 16-18 weeks of age group birds (layers). 	
		Management	 - Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking. - Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin A, vitamin B & vitamin C. 	
			As the temperature is becoming low during night time protect birds from cold by using polythene sheet or hessian cloth.	
Sheep/ Goar	age (as and when	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.	
	required)	F.M.D.	- Vaccinate against F.M.D.	
		Deworming	- Give Albomac suspension @ 5ml per adult.	
Pig	Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
	age (as and when required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buffa		Deworming	Deworm using TolzanF @ 100ml/300kg body weight.	
Mithun	age (as and when required)	F.M.D.	- Vaccinate against F.M.D.	
	required)	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.	
Fishery:				
Type of Farming	Stage & Management	Agro-metrological advisori	es	
Carp/	Stock maintenance	- Stock fish for next season and for this practices mentioned below may be done in small scale.		
Catfish			from unwanted vegetation and insects and water depth should be	
culture			ided 1-2 times a day @ 2-3% body weight per day.	
			ortified with vitamins and minerals should be provided.	
		- Apply Green AQ @ 4	litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	



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MANIPUR BULLETIN 2nd January, 2015

Tamenglong

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Weather forecast for next five days of Tamenglong (3rd to 7th January, 2014)

There may be light rain at isolated places on Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of $23.0-25.0~^{\circ}\text{C}$ & minimum temp. $6.0-10.0~^{\circ}\text{C}$. Relative humidity may reach upto 100~% (maximum RH) & 65~% (minimum RH). The average wind speed may be 2--3~km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 5th January, 2014 Fog would occur at many places over Manipur.

Weather Outlook for subsequent 4 days from 05th January 2015 to 09th January 2015

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Rapeseed/	Vegetative to		- If facility is available give irrigation to keep soil moist.
mustard	flowering	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 (Field pea/	Vegetative		- If facility is available give irrigation to keep soil moist during vegetative stage for better yield.
Lentil)		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid on the infected patches only. For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Potato	Vegetative		- Give light irrigation to attain optimum soil moisture.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops		, <u> </u>	
Cauliflower, Cabbage & Broccoli	Transplanting		After preparation for transplanting, 850 gm Urea, 2 kg DAP and 1kg MOP along with 40 kg FYM should be incorporated with the soil in an area of 100 m ² and another 850 g Urea may be top dressed at head/ curd formation stage. Transplant at a spacing of 60 cm x 60 cm for hybrid varieties of cabbage (like Rareball, Green Hero) and cauliflower (White Flash, Sweetha).
	Head formation stage	Plutella, Daimond, Black Moth	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water at 7 days interval.
	to harvesting	Leaf eating caterpillar	Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cauliflower	Curd formation stage	Whip tail and Chlorosis	- Spray Tracel @ 5g/ litre of water if leaves fail to develop normally/ curl towards the terminal end or chlorosis (whitening/ yellowing of leaves) is observed.



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Local cucun (Kalenthabi		Land preparation sowing	to	- Land preparation for sowing of local cucumber (kalen thabi) may be started.
Citrus		For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
			Leaf eating caterpillar, thrips mite.	- Spray Confidor @ 0.5 ml/ lit of water.
Animal Sci			1	
Name of the ani		Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age groups (as and when	Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
		groups (as and when required)	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). Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
			Management	 Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking. Increase energy feed upto 5% (like maize, rice bran, etc.). Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin A, vitamin B & vitamin C. As the temperature is becoming low during night time protect birds from cold by using polythene sheet or hessian cloth.
Sheep/ Goat		Above 3 months of age (as and when	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		required)	F.M.D.	- Vaccinate against F.M.D.
			Deworming	- Give Albomac suspension @ 5ml per adult.
Pig		Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
			Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffal	lo/	Above 3 months of	Deworming	Deworm using TolzanF @ 100ml/300kg body weight.
Mithun		age (as and when	F.M.D.	- Vaccinate against F.M.D.
		required)	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.
Fishery:	·			
Type of Farming	Stage & Agro-metr Management		Agro-metrological advisor	ies
Carp/ Stock maintenance Catfish culture		 Ponds should be free maintained at 1.0 - 1.5 Feeds should be prov Well balanced feed for 	rided 1-2 times a day @ 2-3% body weight per day. ortified with vitamins and minerals should be provided.	
			- Apply Green AQ @ 4	4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.



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MANIPUR BULLETIN 2nd January, 2015

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 3rd to 7th January, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th December, 2014 to 1st January, 2015)

During past three days sky was partly cloudy to cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 21.2-22.7 °C, range of minimum temperature observed was 6.9-13.0 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 60.7 % respectively. The average wind speed range was 0.7-0.9 km/hr.

Weather forecast for next five days of Thoubal (3rd to 7th January, 2014)

There may be light rain at isolated places on Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of $22.0-24.0\,^{\circ}\text{C}$ & minimum temp. $5.0-8.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (maximum RH) & 72 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 5th January, 2014 Fog would occur at many places over Manipur.

Weather Outlook for subsequent 4 days from 05th January 2015 to 09th January 2015

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/	Vegetative to		- If facility is available give irrigation to keep soil moist.
mustard	flowering	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 (Field pea/	Vegetative		- If facility is available give irrigation to keep soil moist during vegetative stage for better yield.
Lentil)		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid on the infected patches only. For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Potato	Vegetative		- Give light irrigation to attain optimum soil moisture.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	1		<u> </u>
Cauliflower, Cabbage & Broccoli	Transplanting		After preparation for transplanting, 850 gm Urea, 2 kg DAP and 1kg MOP along with 40 kg FYM should be incorporated with the soil in an area of 100 m ² and another 850 g Urea may be top dressed at head/ curd formation stage. Transplant at a spacing of 60 cm x 60 cm for hybrid varieties of cabbage (like Rareball, Green Hero) and cauliflower (White Flash, Sweetha).
	Head formation stage	Plutella, Daimond, Black Moth	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water at 7 days interval.
	to harvesting	Leaf eating caterpillar	Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cauliflower	Curd formation stage	Whip tail and Chlorosis	- Spray Tracel @ 5g/ litre of water if leaves fail to develop normally/ curl towards the terminal end or chlorosis (whitening/ yellowing of leaves) is observed.



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Local cucum (Kalenthabi)		on to	- Land preparation for sowing of local cucumber (kalen thabi) may be started.		
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.		
		Leaf eating caterpillar, thrips mite.	- Spray Confidor @ 0.5 ml/ lit of water.		
Animal Scie		D: /: C :			
Name of the anii	oro will stage	Disease/ infestation	Agro-meteorological advisories		
Poultry	All susceptible age groups (as and who		Give Coximar @ 2g/lit of drinking water for 5-7 days.		
	required)	Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.		
			2. R₂B vaccine of 8-9 weeks of age group birds (layers).3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).		
		Management	 - Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking. - Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 		
			days along with vitamin A, vitamin B & vitamin C. As the temperature is becoming low during night time protect birds from cold by using polythene sheet or hessian cloth.		
Sheep/ Goat	Above 3 months o age (as and when	f Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.		
	required)	F.M.D.	- Vaccinate against F.M.D.		
		Deworming	- Give Albomac suspension @ 5ml per adult.		
Pig	Above 3 months o	f Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.		
	age (as and when	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.		
	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
Cattle / Buffalo		f Deworming	Deworm using TolzanF @ 100ml/300kg body weight.		
Mithun	age (as and when required)	F.M.D.	- Vaccinate against F.M.D.		
	required)	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.		
Fishery:	·				
Type of	Stage &	Agro-metrological advisor	ries		
Farming Carp/	Management Stock maintenance	- Stock fish for payt se	eason and for this practices mentioned below may be done in small scale.		
Carp/ Catfish	Stock maintenance		- Stock fish for next season and for this practices mentioned below may be done in small scale. - Ponds should be free from unwanted vegetation and insects and water depth should be		
culture		maintained at 1.0 - 1.5			
			vided 1-2 times a day @ 2-3% body weight per day.		
			Fortified with vitamins and minerals should be provided.		
			4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		



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MANIPUR BULLETIN 2nd January, 2015

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 3rd to 7th January, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th December, 2014 to 1st January, 2015)

During past three days sky was partly cloudy to cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 21.2-22.7 °C, range of minimum temperature observed was 6.9-13.0 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 60.7 % respectively. The average wind speed range was 0.7-0.9 km/hr.

Weather forecast for next five days of Ukhrul (3rd to 7th January, 2014)

There may be light rain at isolated places on Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of $19.0-23.0~^{\circ}\text{C}$ & minimum temp. $3.0-7.0~^{\circ}\text{C}$. Relative humidity may reach upto 99 % (maximum RH) & 64 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 5th January, 2014 Fog would occur at many places over Manipur.

Weather Outlook for subsequent 4 days from 05th January 2015 to 09th January 2015

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		,	
Rapeseed/	Vegetative to		- If facility is available give irrigation to keep soil moist.
mustard	flowering	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 (Field pea/	Vegetative		- If facility is available give irrigation to keep soil moist during vegetative stage for better yield.
Lentil)		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid on the infected patches only. For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			After proper drying, store grams/ seeds in wen ventuated godowns.
Cauliflower, Cabbage & Broccoli	Transplanting		After preparation for transplanting, 850 gm Urea, 2 kg DAP and 1kg MOP along with 40 kg FYM should be incorporated with the soil in an area of 100 m ² and another 850 g Urea may be top dressed at head/ curd formation stage. Transplant at a spacing of 60 cm x 60 cm for hybrid varieties of cabbage (like Rareball, Green Hero) and cauliflower (White Flash, Sweetha).
	Head formation stage	Plutella, Daimond, Black Moth	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water at 7 days interval.
	to harvesting	Leaf eating caterpillar	Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cauliflower	Curd formation stage	Whip tail and Chlorosis	- Spray Tracel @ 5g/ litre of water if leaves fail to develop normally/ curl towards the terminal end or chlorosis (whitening/ yellowing of leaves) is observed.



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leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the of nursery.	
Leaf eating caterpillar, thr mite.	- Spray Confidor @ 0.5 ml/ lit of water.	
Disease/ infestation	Agro-meteorological advisories	
age Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.	
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). Killed ND virus vaccine of 16-18 weeks of age group birds (layers). 	
Management	 - Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking. - Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for days along with vitamin A, vitamin B & vitamin C. As the temperature is becoming low during night time protect birds from the company of th	
	cold by using polythene sheet or hessian cloth.	
s of Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.	
F.M.D.	- Vaccinate against F.M.D.	
Deworming	- Give Albomac suspension @ 5ml per adult.	
s of Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
n Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a we while brushing the animal.	
s of Deworming	Deworm using TolzanF @ 100ml/300kg body weight.	
F.M.D.	- Vaccinate against F.M.D.	
Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.	
,		
Agro-metrological advisories		
Ponds should be finaintained at 1.0 -Feeds should be pWell balanced fee	 Stock fish for next season and for this practices mentioned below may be done in small scale. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5 m. Feeds should be provided 1-2 times a day @ 2-3% body weight per day. Well balanced feed fortified with vitamins and minerals should be provided. Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. 	
	- Well balanced feed t	



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MANIPUR BULLETIN 2nd January, 2015

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 3rd to 7th January, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th December, 2014 to 1st January, 2015)

During past three days sky was partly cloudy to cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 21.2-22.7 °C, range of minimum temperature observed was 6.9-13.0 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 60.7 % respectively. The average wind speed range was 0.7-0.9 km/hr.

Weather forecast for next five days of Bishnupur (3rd to 7th January, 2014)

There may be light rain at isolated places on Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of $23.0-25.0\,^{\circ}\text{C}$ & minimum temp. $5.0-9.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (maximum RH) & $71\,\%$ (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 5th January, 2014 Fog would occur at many places over Manipur.

Weather Outlook for subsequent 4 days from 05th January 2015 to 09th January 2015

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	ı	<u> </u>	
Rapeseed/	Vegetative to		- If facility is available give irrigation to keep soil moist.
mustard	flowering	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 (Field pea/	Vegetative		- If facility is available give irrigation to keep soil moist during vegetative stage for better yield.
Lentil)		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid on the infected patches only. For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Potato	Vegetative		- Give light irrigation to attain optimum soil moisture.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops		<u>, </u>	
Cauliflower, Cabbage & Broccoli	Transplanting		After preparation for transplanting, 850 gm Urea, 2 kg DAP and 1kg MOP along with 40 kg FYM should be incorporated with the soil in an area of 100 m ² and another 850 g Urea may be top dressed at head/ curd formation stage. Transplant at a spacing of 60 cm x 60 cm for hybrid varieties of cabbage (like Rareball, Green Hero) and cauliflower (White Flash, Sweetha).
	Head formation	Plutella, Daimond,	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water
	stage	Black Moth	at 7 days interval.
	to harvesting	Leaf eating caterpillar	Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cauliflower	Curd formation stage	Whip tail and Chlorosis	- Spray Tracel @ 5g/ litre of water if leaves fail to develop normally/ curl towards the terminal end or chlorosis (whitening/ yellowing of leaves) is observed.



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Local cucun (Kalenthabi		ion to	- Land preparation for sowing of local cucumber (kalen thabi) may be started.		
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.		
		Leaf eating caterpillar, thrip mite.	- Spray Confidor @ 0.5 ml/ lit of water.		
Animal Sci	·	D: /: C			
Name of the ani	Oro will stage	Disease/ infestation	Agro-meteorological advisories		
Poultry	All susceptible ag groups (as and wh		Give Coximar @ 2g/lit of drinking water for 5-7 days.		
	required)	Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds.		
			2. R₂B vaccine of 8-9 weeks of age group birds (layers).3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).		
		Management	 Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking. Increase energy feed upto 5% (like maize, rice bran, etc.). Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 		
			days along with vitamin A, vitamin B & vitamin C. As the temperature is becoming low during night time protect birds from		
Sheep/ Goat	Above 3 months of age (as and when	of Ectoparasite	cold by using polythene sheet or hessian cloth. Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.		
	required)	F.M.D.	- Vaccinate against F.M.D.		
		Deworming	- Give Albomac suspension @ 5ml per adult.		
Pig	Above 3 months	of Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.		
	age (as and when required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.		
	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
Cattle / Buffal		of Deworming	Deworm using TolzanF @ 100ml/300kg body weight.		
Mithun	age (as and when	F.M.D.	- Vaccinate against F.M.D.		
	required)	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.		
Fishery:					
Type of	Stage &	Agro-metrological adviso	ries		
Farming Carp/	Management Stock maintenance - Stock fish for next season and for this practices mentioned be		eason and for this practices mentioned below may be done in small scale.		
Carp/ Catfish	Stock mannenance		Ponds should be free from unwanted vegetation and insects and water depth should be		
culture			naintained at 1.0 - 1.5 m.		
			vided 1-2 times a day @ 2-3% body weight per day.		
			fortified with vitamins and minerals should be provided.		
			4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		



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MANIPUR BULLETIN 2nd January, 2015

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 3rd to 7th January, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th December, 2014 to 1st January, 2015)

During past three days sky was partly cloudy to cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 21.2-22.7 °C, range of minimum temperature observed was 6.9-13.0 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 60.7 % respectively. The average wind speed range was 0.7-0.9 km/hr.

Weather forecast for next five days of Chandel (3rd to 7th January, 2014)

There may be light rain at isolated places on Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of $21.0-24.0~^{\circ}\text{C}$ & minimum temp. $4.0-9.0~^{\circ}\text{C}$. Relative humidity may reach upto 99 % (maximum RH) & 67 % (minimum RH). The average wind speed may be 2-5 km/hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 5th January, 2014 Fog would occur at many places over Manipur.

Weather Outlook for subsequent 4 days from 05th January 2015 to 09th January 2015

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/	Vegetative to		- If facility is available give irrigation to keep soil moist.
mustard	flowering	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 (Field pea/	Vegetative		- If facility is available give irrigation to keep soil moist during vegetative stage for better yield.
Lentil		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid on the infected patches only. For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Potato	Vegetative		- Give light irrigation to attain optimum soil moisture.
		Aphid	- If aphid is observed in small area, wash off it with plain water but if it is severe, spray cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	1	<u> </u>	<u> </u>
Cauliflower, Cabbage & Broccoli	Transplanting		After preparation for transplanting, 850 gm Urea, 2 kg DAP and 1kg MOP along with 40 kg FYM should be incorporated with the soil in an area of 100 m ² and another 850 g Urea may be top dressed at head/ curd formation stage. Transplant at a spacing of 60 cm x 60 cm for hybrid varieties of cabbage (like Rareball, Green Hero) and cauliflower (White Flash, Sweetha).
	Head formation stage	Plutella, Daimond, Black Moth	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water at 7 days interval.
	to harvesting	Leaf eating caterpillar	Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cauliflower	Curd formation stage	Whip tail and Chlorosis	- Spray Tracel @ 5g/ litre of water if leaves fail to develop normally/ curl towards the terminal end or chlorosis (whitening/ yellowing of leaves) is observed.



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



"Integrated Agromet Advisory Services"

Local cucun (Kalenthabi	1 1	n to	- Land preparation for sowing of local cucumber (kalen thabi) may be started.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		Leaf eating caterpillar, thrip mite.	- Spray Confidor @ 0.5 ml/ lit of water.
Animal Sci			
Name of the ani	oro will stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age	Coccidiosis	Give Coximar @ 2g/lit of drinking water for 5-7 days.
	groups (as and whe required)	n 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). Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Management	 Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material to prevent from caking. Increase energy feed upto 5% (like maize, rice bran, etc.). Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin A, vitamin B & vitamin C. As the temperature is becoming low during night time protect birds from
Sheep/ Goat	Above 3 months of	Ectoparasite	cold by using polythene sheet or hessian cloth. Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the
Sheep/ Goat	age (as and when	Letoparasite	solution.
	required)	F.M.D.	- Vaccinate against F.M.D.
		Deworming	- Give Albomac suspension @ 5ml per adult.
Pig	Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
	age (as and when	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffal		Deworming	Deworm using TolzanF @ 100ml/300kg body weight.
Mithun	age (as and when	F.M.D.	- Vaccinate against F.M.D.
	required)	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.
Fishery:			
Type of	Stage &	Agro-metrological adviso	ories
Farming Carp/ Catfish	Management Stock maintenance		season and for this practices mentioned below may be done in small scale. ee from unwanted vegetation and insects and water depth should be
culture		maintained at 1.0 - 1.5 m. - Feeds should be provided 1-2 times a day @ 2-3% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	