

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 31st October, 2014

Chandel

Brinjal

harvesting

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 1st to 5th November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(28^{th}$ to 30^{th} October, 2014)

During past three days sky was partly cloudy to cloudy but mainly clear during afternoon hours of 29^{th} Oct. **3.7 mm** rainfall was recorded during past three days. Maximum temperature range observed was 21.9-28.6 °C, range of minimum temperature observed was 13.6-16.0 °C, mean relative humidity observed in morning and afternoon were 92.67 % and 74.0 % respectively. The average wind speed range was 1.0-1.9 km/hr.

Weather forecast for next five days of Chandel (1st to 5th November, 2014)

There may be light rains on Monday & Tuesday. Sky may be mainly clear to partly cloudy with maximum temp. of $26.0-28.0~^{\circ}\text{C}$ & minimum temp. $10.0-13.0~^{\circ}\text{C}$. Relative humidity may reach upto 99 % (maximum RH) & 57 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

For fruit and shoot borer of brinjal Decis (Deltamethrin 12 %) @ 7ml/15

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		Į.	
Kharif Rice	Maturity & harvesting		 Drain out water before harvesting. Harvesting of rice may be done before Monday if 80 % of the spikelet is yellow & facility for threshing is available. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		 After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.
Field pea	Land preparation to sowing		Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/hectare.
Potato	Land preparation to sowing		Land preparation may be done. Sowing may be done at a spacing of 60cm X 15-20cm. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare.
Groundnut	Maturity to harvesting		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops Farmers are advised	to treat the soil for cu	<u> </u>	sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos
			able crop mix thoroughly with 2-3 g Carbendazim per kg seed.
Ginger/ Turmeric	Rhizome formation		- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
	Fruiting to		For fruit and shoot borer of brinial Decis (Deltamethrin 12 %) @ 7ml/15



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			rided 1-2 times a day @ 3 % body weight per day. ortified with vitamins and minerals should be provided.
culture	maintenance		from unwanted vegetation and insects and water depth should be
Carp/ Catfish	Harvesting and stock maintenance	Fish harvesting can bStock fish for next ve	be started. ear and for this practices mentioned below may be done in small scale.
Farming	Management		
Fishery:	Stage &	Agro-metrological advisor	ies
77' 1		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.
1.11tifull	required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
Cattle / Buffa Mithun	Above 3 months of age (as and when	Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.
C-441. / D 00	A1 2 d C	E : 1 :	while brushing the animal.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
	required)	Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
Pig	Above 3 months of age (as and when	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
D'	_	Deworming	- Give Albomic suspension @ 5ml per adult.
	age (as and when required)	December	pregnancy.
Sheep/ Goa	t Above 3 months of	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of
		Litter management	Stir the litter material regularly and add unbaked lime.
	required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Poultry	groups (as and when		Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
	nimal Growth stage All susceptible age	Disease/ infestation Coccidiosis	Agro-meteorological advisories
Animal Sca		Discount informati	A man made and to the district of
4 • • •			direct contact with soil.
			Provide bedding material/ support system for immature fruits to avoid
	in , comis		- Do not harvest when it rains.
romato	harvesting		transportation or storing for 10-12 days.
Tomato	Fruiting/		- 45-60 days old seedlings may be transplanted.- Fully grown fruit of yellowish in colour may be harvested for
			damaged.
			- check that the new sprouts/ young plants in nursery beds are not
			- For 25 sq m area we need ½ kg seeds.
Onion	Nursery raising		- Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases.
Onion	NT.,		dose is required.
			- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the
	sowing		Spaning may be maintained at 10cm x 20-25cm apart.
(Palak)	preparation &		- Avoid damping off by adding Captan 50WP in the soil of bed.
Spinach bee	et Land		Seed rate is 100g seeds for 100 sq. m.Well drained soil is best for growing spinach beet.
			thoroughly to improve soil fertility.
			- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix
	sowing		before sowing to protect seeds from ant and other insects.
	preparation &		beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days
Coriander	Land		- Select area with bright sunshine rich in organic manure for preparing



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 31st October, 2014

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 1st to 5th November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(28^{th} \text{ to } 30^{th} \text{ October}, 2014)$

During past three days sky was partly cloudy to cloudy but mainly clear during afternoon hours of 29^{th} Oct. **3.7 mm** rainfall was recorded during past three days. Maximum temperature range observed was 21.9-28.6 °C, range of minimum temperature observed was 13.6-16.0 °C, mean relative humidity observed in morning and afternoon were 92.67 % and 74.0 % respectively. The average wind speed range was 1.0-1.9 km/hr.

Weather forecast for next five days of Churachandpur (1st to 5th November, 2014)

There may be light rains on Monday & Tuesday. Sky may be mainly clear to partly cloudy with maximum temp. of $26.0-29.0\,^{\circ}\text{C}$ & minimum temp. $10.0-12.0\,^{\circ}\text{C}$. Relative humidity may reach upto 99 % (maximum RH) & 50 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Kharif Rice	Maturity & harvesting		 Drain out water before harvesting. Harvesting of rice may be done before Monday if 80 % of the spikelet is yellow & facility for threshing is available. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		 - After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. - Recommended variety – M-27. Seed rate is 10-12 kg/ ha. - Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.
Field pea	Land preparation to sowing		Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/hectare.
Potato	Land preparation to sowing		Land preparation may be done. Sowing may be done at a spacing of 60cm X 15-20cm. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare.
Groundnut	Maturity to harvesting		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
			ry sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos etable crop mix thoroughly with 2-3 g Carbendazim per kg seed.
Ginger/ Turmeric	Rhizome formation		- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal Decis (Deltamethrin 12 %) @ 7ml/15



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				litre of water may be sprayed after the harvest of mature ones.	
Coriander	Land prepara	ation &		- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days	
	sowing			before sowing to protect seeds from ant and other insects.	
				- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix	
				thoroughly to improve soil fertility.	
				- Seed rate is 100g seeds for 100 sq. m.	
Spinach be				- Well drained soil is best for growing spinach beet.	
(Palak)		ation &		- Avoid damping off by adding Captan 50WP in the soil of bed.	
	sowing	5		Spaning may be maintained at 10cm x 20-25cm apart.	
				- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.	
Onion	Nurser	y raising		- Apply Captan 50 WP during final land preparation as preventive	
Omon	Turser	y raising		measures against soil borne diseases.	
				- For 25 sq m area we need ½ kg seeds.	
				- check that the new sprouts/ young plants in nursery beds are not	
				damaged.	
				- 45-60 days old seedlings may be transplanted.	
Tomato	Fruitin	-		- Fully grown fruit of yellowish in colour may be harvested for	
	harves	ting		transportation or storing for 10-12 days.	
				- Do not harvest when it rains.	
				Provide bedding material/ support system for immature fruits to avoid	
Animal Sc	ionaas			direct contact with soil.	
Name of the a		stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		ptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
_		groups (as and when required)		along with glucose.	
	required)		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
			Litter management	Stir the litter material regularly and add unbaked lime.	
Sheep/ Goa	age (as ar	Above 3 months of age (as and when	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.	
	required)		Deworming	- Give Albomic suspension @ 5ml per adult.	
Pig	Above 3	Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
Ö	age (as ar required)		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
			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 / Buff		months of	Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.	
Mithun	age (as ar required)		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
	required)		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
Type of Farming	Stage & Management		Agro-metrological advisor	ies	
Carp/	Harvesting and stock		- Fish harvesting can be started.		
Catfish	maintenance		- Stock fish for next year and for this practices mentioned below may be done in small scale.		
culture			- Ponds should be free maintained at 1.0-1.5n	from unwanted vegetation and insects and water depth should be n.	
				rided 1-2 times a day @ 3 % body weight per day.	
				ortified with vitamins and minerals should be provided.	
	1			4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	



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MANIPUR BULLETIN 31st October, 2014

Imphal-East

Brinjal

harvesting

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Weather forecast for next five days of Imphal-East (1st to 5th November, 2014)

There may be light rains on Monday & Tuesday. Sky may be mainly clear to partly cloudy with maximum temp. of $28.0-29.0~^{\circ}\text{C}$ & minimum temp. $12.0-16.0~^{\circ}\text{C}$. Relative humidity may reach upto 100~% (maximum RH) & 46~% (minimum RH). The average wind speed may be 0-3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Kharif Rice	Maturity & harvesting		 - Drain out water before harvesting. - Harvesting of rice may be done before Monday if 80 % of the spikelet is yellow & facility for threshing is available. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		 - After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. - Recommended variety – M-27. Seed rate is 10-12 kg/ ha. - Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.
Field pea	Land preparation to sowing		Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/hectare.
Potato	Land preparation to sowing		Land preparation may be done. Sowing may be done at a spacing of 60cm X 15-20cm. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare.
Groundnut	Maturity to harvesting		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops Farmers are advised	to treat the soil for cu	t worm before nurser	ry sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos
			etable crop mix thoroughly with 2-3 g Carbendazim per kg seed.
Ginger/ Turmeric	Rhizome formation	<u> </u>	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
Rrinial	Fruiting to		For fruit and shoot borer of brinjal Decis (Deltamethrin 12 %) @ 7ml/15



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				litre of water may be sprayed after the harvest of mature ones.	
Coriander		Land		- Select area with bright sunshine rich in organic manure for preparing	
		preparation & sowing		beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days	
				before sowing to protect seeds from ant and other insects.	
				- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix	
				thoroughly to improve soil fertility.	
				- Seed rate is 100g seeds for 100 sq. m.	
Spinach bee	et	Land		- Well drained soil is best for growing spinach beet.	
(Palak)		preparation &		- Avoid damping off by adding Captan 50WP in the soil of bed.	
		sowing		Spaning may be maintained at 10cm x 20-25cm apart.	
				- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the	
				dose is required.	
Onion		Nursery raising		- Apply Captan 50 WP during final land preparation as preventive	
				measures against soil borne diseases.	
				- For 25 sq m area we need ½ kg seeds.	
				- check that the new sprouts/ young plants in nursery beds are not	
				damaged.	
Tama 4 -		Emitin = /		- 45-60 days old seedlings may be transplanted.	
Tomato		Fruiting/		- Fully grown fruit of yellowish in colour may be harvested for	
		harvesting		transportation or storing for 10-12 days Do not harvest when it rains.	
				Provide bedding material/ support system for immature fruits to avoid	
				direct contact with soil.	
Animal Sci	iences			direct conduct with son.	
Name of the ar	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
				along with glucose.	
			Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
			Litter management	Stir the litter material regularly and add unbaked lime.	
Sheep/ Goa	t	Above 3 months of	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
		age (as and when		pregnancy.	
		required)	Deworming	- Give Albomic suspension @ 5ml per adult.	
Pig		Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
		age (as and when required)	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
		required)	(Diarrhea)		
			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 / Buffa Mithun	alo/	Above 3 months of	Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.	
Milliun		age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
			Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
Type of Farming	Stage & Management		Agro-metrological advisor	ies	
Carp/		_	 Fish harvesting can b 		
Catfish	maint			ear and for this practices mentioned below may be done in small scale.	
culture			- Ponds should be free from unwanted vegetation and insects and water depth should be		
			maintained at 1.0-1.5m		
				ided 1-2 times a day @ 3 % body weight per day.	
				ortified with vitamins and minerals should be provided. 4 litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	
			0 () A () (a)		



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MANIPUR BULLETIN 31st October, 2014

Imphal-West

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harvesting

Brinjal

Weather forecast for next five days of Imphal-West (1st to 5th November, 2014)

There may be light rains on Monday & Tuesday. Sky may be mainly clear to partly cloudy with maximum temp. of $27.0-29.0~^{\circ}\text{C}$ & minimum temp. $12.0-16.0~^{\circ}\text{C}$. Relative humidity may reach upto 99 % (maximum RH) & 45 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Maturity & harvesting		 Drain out water before harvesting. Harvesting of rice may be done before Monday if 80 % of the spikelet is yellow & facility for threshing is available. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Clean and sundry seeds properly before storage.
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Field pea	Land preparation to sowing		Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/hectare.
Potato	Land preparation to sowing		Land preparation may be done. Sowing may be done at a spacing of 60cm X 15-20cm. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare.
Groundnut	Maturity to harvesting		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops Farmers are advised	to treat the soil for cu	t worm before nursery	sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos
			able crop mix thoroughly with 2-3 g Carbendazim per kg seed.
Ginger/ Turmeric	Rhizome formation	J a second of the second of th	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
Rrinial	Fruiting to		For fruit and shoot borer of brinjal Decis (Deltamethrin 12 %) @ 7ml/15



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			litre of water may be sprayed after the harvest of mature ones.
Coriander	Land		- Select area with bright sunshine rich in organic manure for preparing
	preparation &		beds. Treat seeds using Dichlorovos @ 1ml/litre of water 2-3 days
	sowing		before sowing to protect seeds from ant and other insects.
			- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix
			thoroughly to improve soil fertility.
			- Seed rate is 100g seeds for 100 sq. m.
Spinach bee	et Land		- Well drained soil is best for growing spinach beet.
(Palak)	preparation &		- Avoid damping off by adding Captan 50WP in the soil of bed.
	sowing		Spaning may be maintained at 10cm x 20-25cm apart.
			- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the
			dose is required.
Onion	Nursery raising	7	- Apply Captan 50 WP during final land preparation as preventive
			measures against soil borne diseases.
			- For 25 sq m area we need ½ kg seeds.
			- check that the new sprouts/ young plants in nursery beds are not
			damaged.
m			- 45-60 days old seedlings may be transplanted.
Tomato	Fruiting/		- Fully grown fruit of yellowish in colour may be harvested for
	harvesting		transportation or storing for 10-12 days.
			- Do not harvest when it rains.
			Provide bedding material/ support system for immature fruits to avoid
4 I C	:		direct contact with soil.
Animal Sci		Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age		Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days
1 outing	groups (as and when		along with glucose.
	required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Litter management	Stir the litter material regularly and add unbaked lime.
Sheep/ Goa	t Above 3 months of	_	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of
Sheep/ Goa	age (as and when	Tetalius	pregnancy.
	required)	Deworming	- Give Albomic suspension @ 5ml per adult.
D'	Above 3 months of		
Pig	age (as and when	Simi micetion	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
	required)	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	1-1	(Diarrhea)	
		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
G 44 / D 66	1 / 11 2 1	6 F : 1 :	while brushing the animal.
Cattle / Buffa Mithun	Above 3 months of age (as and when		- Give Tolzan-F @30 ml/ 100 kg body weight.
Withium	required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.
Fishery:			
Type of	Stage & Management	Agro-metrological advisor	ies
Type of Farming	Management		
Type of Farming Carp/	Management Harvesting and stock	- Fish harvesting can b	pe started.
Type of Farming Carp/ Catfish	Management	- Fish harvesting can b - Stock fish for next ye	be started. ear and for this practices mentioned below may be done in small scale.
Type of Farming Carp/	Management Harvesting and stock	- Fish harvesting can b - Stock fish for next ye - Ponds should be free	be started. ear and for this practices mentioned below may be done in small scale. from unwanted vegetation and insects and water depth should be
Type of Farming Carp/ Catfish	Management Harvesting and stock	- Fish harvesting can b - Stock fish for next ye - Ponds should be free maintained at 1.0-1.5n	be started. ear and for this practices mentioned below may be done in small scale. from unwanted vegetation and insects and water depth should be n.
Type of Farming Carp/ Catfish	Management Harvesting and stock	- Fish harvesting can b - Stock fish for next ye - Ponds should be free maintained at 1.0-1.5n - Feeds should be prov	be started. ear and for this practices mentioned below may be done in small scale. from unwanted vegetation and insects and water depth should be



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MANIPUR BULLETIN 31st October, 2014

Senapati

Coriander

Land

preparation &

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 1st to 5th November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th October, 2014)

During past three days sky was partly cloudy to cloudy but mainly clear during afternoon hours of 29^{th} Oct. **3.7 mm** rainfall was recorded during past three days. Maximum temperature range observed was 21.9-28.6 °C, range of minimum temperature observed was 13.6-16.0 °C, mean relative humidity observed in morning and afternoon were 92.67 % and 74.0 % respectively. The average wind speed range was 1.0-1.9 km/hr.

Weather forecast for next five days of Senapati (1st to 5th November, 2014)

There may be light rains on Monday & Tuesday. Sky may be mainly clear to partly cloudy with maximum temp. of $24.0-27.0\,^{\circ}\text{C}$ & minimum temp. $8.0-11.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (maximum RH) & $45\,\%$ (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

- Select area with bright sunshine rich in organic manure for preparing

beds. Treat seeds using Dichlorovos @ 1ml/litre of water 2-3 days

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Kharif Rice	Maturity & harvesting		 Drain out water before harvesting. Harvesting of rice may be done before Monday if 80 % of the spikelet is yellow & facility for threshing is available. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		 After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and Downey mildew at seedling stage.
Field pea	Land preparation to sowing		Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/hectare.
Groundnut	Maturity to harvesting		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			, ·
			ry sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos etable crop mix thoroughly with 2-3 g Carbendazim per kg seed.
Ginger/ Turmeric	Rhizome formation	<u> </u>	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal <i>Decis</i> (<i>Deltamethrin 12 %</i>) @ 7ml/15 litre of water may be sprayed after the harvest of mature ones.



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		sowing		before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach be (Palak)	et	Land preparation & sowing		 Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spaning may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 sq m. If broadcasting is done, double the
				dose is required.
Onion		Nursery raising		 Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted.
Tomato	Fruiting/ harvesting			- Fully grown fruit of yellowish in colour may be harvested for transportation or storing for 10-12 days Do not harvest when it rains. Provide bedding material/ support system for immature fruits to avoid direct contact with soil.
Animal Sc	iences			
Name of the a	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age groups (as and when	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
		required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
			Litter management	Stir the litter material regularly and add unbaked lime.
Sheep/ Goa	ıt	Above 3 months of age (as and when required)	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
			Deworming	- Give Albomic suspension @ 5ml per adult.
Pig		Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
			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 / Buff	alo/	Above 3 months of	Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.
Mithun		age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		10quilou)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.
Fishery:		•		,
Type of	Stage		Agro-metrological advisor	ies
Farming Corm/	Management Harvesting and stock		Fish homesting as 1-	na atawtad
Carp/ Catfish			 Fish harvesting can b Stock fish for next ye 	ear and for this practices mentioned below may be done in small scale.
culture	main			from unwanted vegetation and insects and water depth should be
				rided 1-2 times a day @ 3 % body weight per day.
			- Well balanced feed for	ortified with vitamins and minerals should be provided. 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.
			- Appry Oreen AQ @ 2	+nuc/ na of fine & 200kg/ na. Maintain good quanty of pond water.



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 31st October, 2014

Tamenglong

Brinjal

harvesting

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 1st to 5th November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(28^{th} \text{ to } 30^{th} \text{ October}, 2014)$

During past three days sky was partly cloudy to cloudy but mainly clear during afternoon hours of 29^{th} Oct. **3.7 mm** rainfall was recorded during past three days. Maximum temperature range observed was 21.9-28.6 °C, range of minimum temperature observed was 13.6-16.0 °C, mean relative humidity observed in morning and afternoon were 92.67 % and 74.0 % respectively. The average wind speed range was 1.0-1.9 km/hr.

Weather forecast for next five days of Tamenglong (1st to 5th November, 2014)

There may be light rains on Monday & Tuesday. Sky may be mainly clear to partly cloudy with maximum temp. of $27.0-29.0~^{\circ}\text{C}$ & minimum temp. $11.0-13.0~^{\circ}\text{C}$. Relative humidity may reach upto 98 % (maximum RH) & 46 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

For fruit and shoot borer of brinjal Decis (Deltamethrin 12 %) @ 7ml/15

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		<u>"</u>	
Kharif Rice	Maturity & harvesting		 Drain out water before harvesting. Harvesting of rice may be done before Monday if 80 % of the spikelet is yellow & facility for threshing is available. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		 After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.
Field pea	Land preparation to sowing		Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/hectare.
Potato	Land preparation to sowing		Land preparation may be done. Sowing may be done at a spacing of 60cm X 15-20cm. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare.
Groundnut	Maturity to harvesting		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops Farmers are advised	to treat the soil for cu	t worm before nursery	sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos
			able crop mix thoroughly with 2-3 g Carbendazim per kg seed.
Ginger/ Turmeric	Rhizome formation		- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
	Fruiting to		For fruit and shoot borer of brinial <i>Decis</i> (<i>Deltamethrin 12</i> %) @ 7ml /15



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			4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.
			rided 1-2 times a day @ 3 % body weight per day. ortified with vitamins and minerals should be provided.
culture			from unwanted vegetation and insects and water depth should be
Carp/ Catfish	Harvesting and stock maintenance	Fish harvesting can bStock fish for next ye	ear and for this practices mentioned below may be done in small scale.
Farming	Management		
Fishery: Type of	Stage &	Agro-metrological advisor	ies
T: 1		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.
	required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
Cattle / Buffa Mithun	Above 3 months of age (as and when	Fasciolosis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
Ca441: / D 60	ala/ Al 2 d C	Parital 1	while brushing the animal.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
	required)	Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
Pig	Above 3 months of age (as and when	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
D'	_	Deworming	- Give Albomic suspension @ 5ml per adult.
	age (as and when required)	December	pregnancy.
Sheep/ Goa	t Above 3 months of	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of
		Litter management	Stir the litter material regularly and add unbaked lime.
	required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Poultry	groups (as and when		Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
	nimal Growth stage All susceptible age	Disease/ infestation Coccidiosis	Agro-meteorological advisories
Animal Sci		Diagonal ! fr 4 - 4*	A one motornal advanta distriction
			direct contact with soil.
			Provide bedding material/ support system for immature fruits to avoid
	nui vesting		- Do not harvest when it rains.
Tomato	Fruiting/ harvesting		- Fully grown fruit of yellowish in colour may be harvested for transportation or storing for 10-12 days.
Tomata	Emitin ~/		- 45-60 days old seedlings may be transplanted.
			damaged.
			- check that the new sprouts/ young plants in nursery beds are not
			- For 25 sq m area we need ½ kg seeds.
Onion	Nursery raising		- Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases.
Ontor	NT.,		dose is required.
			- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the
	sowing		Spaning may be maintained at 10cm x 20-25cm apart.
(Palak)	preparation &		- Avoid damping off by adding Captan 50WP in the soil of bed.
Spinach bee	et Land		Seed rate is 100g seeds for 100 sq. m.Well drained soil is best for growing spinach beet.
			thoroughly to improve soil fertility.
			- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix
	sowing		before sowing to protect seeds from ant and other insects.
	preparation &		beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days
Coriander	Land		- Select area with bright sunshine rich in organic manure for preparing



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 31st October, 2014

Thoubal

Brinjal

harvesting

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 1st to 5th November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(28^{th} \text{ to } 30^{th} \text{ October}, 2014)$

During past three days sky was partly cloudy to cloudy but mainly clear during afternoon hours of 29^{th} Oct. **3.7 mm** rainfall was recorded during past three days. Maximum temperature range observed was 21.9-28.6 °C, range of minimum temperature observed was 13.6-16.0 °C, mean relative humidity observed in morning and afternoon were 92.67 % and 74.0 % respectively. The average wind speed range was 1.0-1.9 km/hr.

Weather forecast for next five days of Thoubal (1st to 5th November, 2014)

There may be light rains on Monday & Tuesday. Sky may be mainly clear to partly cloudy with maximum temp. of $26.0-28.0~^{\circ}\text{C}$ & minimum temp. $11.0-14.0~^{\circ}\text{C}$. Relative humidity may reach upto 100~% (maximum RH) & 54~% (minimum RH). The average wind speed may be 0-2~km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Kharif Rice	Maturity & harvesting		 Drain out water before harvesting. Harvesting of rice may be done before Monday if 80 % of the spikelet is yellow & facility for threshing is available. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		 - After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. - Recommended variety – M-27. Seed rate is 10-12 kg/ ha. - Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.
Field pea	Land preparation to sowing		Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/hectare.
Potato	Land preparation to sowing		Land preparation may be done. Sowing may be done at a spacing of 60cm X 15-20cm. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare.
Groundnut	Maturity to harvesting		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops Farmers are advised	to treat the soil for cu	t worm before nurser	ry sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos
			etable crop mix thoroughly with 2-3 g Carbendazim per kg seed.
Ginger/ Turmeric	Rhizome formation		- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
Rrinial	Fruiting to		For fruit and shoot borer of brinjal Decis (Deltamethrin 12 %) @ 7ml/15



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				litre of water may be sprayed after the harvest of mature ones.	
Coriander		Land		- Select area with bright sunshine rich in organic manure for preparing	
001		preparation &		beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days	
		sowing		before sowing to protect seeds from ant and other insects.	
				- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix	
				thoroughly to improve soil fertility.	
				- Seed rate is 100g seeds for 100 sq. m.	
Spinach bee	et	Land		- Well drained soil is best for growing spinach beet.	
(Palak)		preparation &		- Avoid damping off by adding Captan 50WP in the soil of bed.	
		sowing		Spaning may be maintained at 10cm x 20-25cm apart.	
				- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the	
				dose is required.	
Onion		Nursery raising		- Apply Captan 50 WP during final land preparation as preventive	
				measures against soil borne diseases.	
				- For 25 sq m area we need ½ kg seeds.	
				- check that the new sprouts/ young plants in nursery beds are not	
				damaged.	
Tomata		Emiting/		- 45-60 days old seedlings may be transplanted.	
Tomato		Fruiting/		- Fully grown fruit of yellowish in colour may be harvested for	
		harvesting		transportation or storing for 10-12 days Do not harvest when it rains.	
				Provide bedding material/ support system for immature fruits to avoid	
				direct contact with soil.	
Animal Sci	iences			direct conduct with son.	
Name of the ar	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age groups (as and when	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
				along with glucose.	
		required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
			Litter management	Stir the litter material regularly and add unbaked lime.	
Sheep/ Goat	t	Above 3 months of	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
_		age (as and when		pregnancy.	
		required)	Deworming	- Give Albomic suspension @ 5ml per adult.	
Pig		Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
			Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
			(Diarrhea)		
			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	
C 441 / 75 00	1. /	41 2 1 2	D . 1 .	while brushing the animal.	
Cattle / Buffa Mithun	alo/	Above 3 months of age (as and when	Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.	
MINIMI		required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
			Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
Type of Farming	Stage & Management		Agro-metrological advisor	ies	
Carp/			Fish harvesting can be started.Stock fish for next year and for this practices mentioned below may be done in small scale.		
_					
culture			- Ponds should be free from unwanted vegetation and insects and water depth should be		
			maintained at 1.0-1.5m.		
			- Feeds should be provided 1-2 times a day @ 3 % body weight per day.		
			- Well balanced feed for	ortified with vitamins and minerals should be provided. 4- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4	



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 31st October, 2014

Ukhrul

Coriander

Land

preparation &

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 1st to 5th November, 2014 as given below:

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Weather forecast for next five days of Ukhrul (1st to 5th November, 2014)

There may be light rains on Monday & Tuesday. Sky may be mainly clear to partly cloudy with maximum temp. of $24.0-26.0\,^{\circ}\text{C}$ & minimum temp. $8.0-10.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (maximum RH) & $52\,\%$ (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

- Select area with bright sunshine rich in organic manure for preparing

beds. Treat seeds using Dichlorovos @ 1ml/litre of water 2-3 days

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Maturity & harvesting		 - Drain out water before harvesting. - Harvesting of rice may be done before Monday if 80 % of the spikelet is yellow & facility for threshing is available. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		 After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and Downey mildew at seedling stage.
Field pea	Land preparation to sowing		Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/hectare.
Groundnut	Maturity to harvesting		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
Storage	-		- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
			y sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos etable crop mix thoroughly with 2-3 g Carbendazim per kg seed.
Ginger/ Turmeric	Rhizome formation	<u> </u>	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal <i>Decis</i> (<i>Deltamethrin 12 %</i>) @ 7ml/15 litre of water may be sprayed after the harvest of mature ones.



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		sowing		before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.	
Spinach be (Palak)	et	Land preparation & sowing		 Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spaning may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 sq m. If broadcasting is done, double the 	
				dose is required.	
Onion		Nursery raising		 Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. 	
Tomato		Fruiting/ harvesting		- Fully grown fruit of yellowish in colour may be harvested for transportation or storing for 10-12 days Do not harvest when it rains. Provide bedding material/ support system for immature fruits to avoid direct contact with soil.	
Animal Sc	iences	•			
Name of the a	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.	
			Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
			Litter management	Stir the litter material regularly and add unbaked lime.	
Sheep/ Goa	ıt	Above 3 months of age (as and when required)	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.	
			Deworming	- Give Albomic suspension @ 5ml per adult.	
Pig		Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
C		age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
			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 weel while brushing the animal.	
Cattle / Buff	alo/	Above 3 months of	Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.	
Mithun		age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
		required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:				,	
Type of	Stage		Agro-metrological advisor	ies	
Farming Corm/	Management Harvesting and stock		Fish homesting as 1	a startad	
Carp/ Catfish			 Fish harvesting can be started. Stock fish for next year 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 1.0-1.5m. 		
culture	maim				
				ided 1-2 times a day @ 3 % body weight per day.	
			- Well balanced feed fortified 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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 31st October, 2014

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 1st to 5th November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(28^{th} \text{ to } 30^{th} \text{ October}, 2014)$

During past three days sky was partly cloudy to cloudy but mainly clear during afternoon hours of 29^{th} Oct. **3.7 mm** rainfall was recorded during past three days. Maximum temperature range observed was 21.9-28.6 °C, range of minimum temperature observed was 13.6-16.0 °C, mean relative humidity observed in morning and afternoon were 92.67 % and 74.0 % respectively. The average wind speed range was 1.0-1.9 km/hr.

Weather forecast for next five days of Bishnupur (1st to 5th November, 2014)

There may be light rains on Monday & Tuesday. Sky may be mainly clear to partly cloudy with maximum temp. of $27.0-29.0\,^{\circ}\text{C}$ & minimum temp. $12.0-15.0\,^{\circ}\text{C}$. Relative humidity may reach upto 99 % (maximum RH) & 51 % (minimum RH). The average wind speed may be 2 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Kharif Rice	Maturity & harvesting		 Drain out water before harvesting. Harvesting of rice may be done before Monday if 80 % of the spikelet is yellow & facility for threshing is available. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		 After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.
Field pea	Land preparation to sowing		Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/hectare.
Potato	Land preparation to sowing		Land preparation may be done. Sowing may be done at a spacing of 60cm X 15-20cm. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare.
Groundnut	Maturity to harvesting		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
			ry sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos etable crop mix thoroughly with 2-3 g Carbendazim per kg seed.
Ginger/ Turmeric	Rhizome formation		- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal Decis (Deltamethrin 12 %) @ 7ml/15



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



			4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	
		 Feeds should be provided 1-2 times a day @ 3 % body weight per day. Well balanced feed fortified with vitamins and minerals should be provided. 		
culture		 Fish harvesting can be started. Stock fish for next year 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 1.0-1.5m. 		
Carp/ Catfish	Harvesting and stock maintenance			
Farming	Management	nagement		
Fishery: Type of	Stage &	Agro-metrological advisor	ies	
Eigh		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
	required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
Cattle / Buffa Mithun	Above 3 months of age (as and when	Fasciolosis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.	
Ca44la / D66	ala/ Abas 2 d C	The state of	while brushing the animal.	
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week	
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
	required)	Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
Pig	Above 3 months of age (as and when	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
D'		Deworming	- Give Albomic suspension @ 5ml per adult.	
	age (as and when required)	D	pregnancy.	
Sheep/ Goat	t Above 3 months of	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
		Litter management	Stir the litter material regularly and add unbaked lime.	
	required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Poultry	groups (as and when		Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.	
	nimal Growth stage All susceptible age	Disease/ infestation Coccidiosis	Agro-meteorological advisories Give preventive does of Covimer @ 1g/lit of dripking water for 7 days	
Animal Sci		Discount information	A sun materials deal a desired	
			direct contact with soil.	
			Provide bedding material/ support system for immature fruits to avoid	
	imi (comig		- Do not harvest when it rains.	
romato	harvesting		transportation or storing for 10-12 days.	
Tomato	Fruiting/		- 45-60 days old seedlings may be transplanted.- Fully grown fruit of yellowish in colour may be harvested for	
			damaged.	
			- check that the new sprouts/ young plants in nursery beds are not	
			- For 25 sq m area we need ½ kg seeds.	
Omon	inuisery raising		measures against soil borne diseases.	
Onion	Nursery raising		dose is required Apply Captan 50 WP during final land preparation as preventive	
			- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the	
	sowing		Spaning may be maintained at 10cm x 20-25cm apart.	
(Palak)	preparation &		- Avoid damping off by adding Captan 50WP in the soil of bed.	
Spinach bee	et Land		- Well drained soil is best for growing spinach beet.	
			thoroughly to improve soil fertility Seed rate is 100g seeds for 100 sq. m.	
			- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix	
	sowing		before sowing to protect seeds from ant and other insects.	
	preparation &		beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days	
			- Select area with bright sunshine rich in organic manure for preparing	