

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 21st 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 22nd to 26th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(17^{th}$ to 20^{th} October, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18^{th} to morning of 19^{th} Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3-29.5 °C, range of minimum temperature observed was 16.5-20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7-1.2 km/hr.

Weather forecast for next five days of Churachandpur (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of $27.0-29.0~^{\circ}\text{C}$ & minimum temp. $12.0-14.0~^{\circ}\text{C}$. Relative humidity may reach a maximum of 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 it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		- Land preparation for sowing field pea may be started.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
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			<u> </u>
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing 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 beet (Palak)	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.



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					- 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.	
Cabbage/		Nu	ırsery		- Sowing of late season crop may be done.	
Cauliflowe					- Care should be taken for the young seedlings below 20 days old.	
Tomato/ C	hilli/	/ Nursery			Nursery sowing of tomato/ chilli/ capsicum for early/off-season	
Capsicum					<i>vegetable</i> may be done under polyhouse only, open field is not advisable.	
Animal So		ı				
Name of the			wth stage	Disease/ infestation	Agro-meteorological advisories	
					ogging around the sheds as it may help in mosquito breeding.	
	ieasures 1				nd around the birds/ animals sheds.	
Poultry			usceptible age ps (as and when	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
		requi		D	along with glucose.	
		roqui	,	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
				Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be	
					provided.	
G1 / G		4.1	2 4 6		Stir the litter material regularly.	
Sheep/ Go	at	Above 3 months of age (as and when		Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
			ired)		pregnancy.	
Pig		Above 3 months of age (as and when required)		Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
				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 / Buf	falo/		ve 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.	
				Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:						
Type of Farming	Stage		Management	Agro-metrological advisori	ies	
Carp/	Grow	_		- Fish harvesting can b		
Catfish	out/				from unwanted vegetation and insects and water depth should be	
culture	nurse	nurseries		maintained at 1.0-1.5m.		
				- 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.		
				- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		
					year above practices may be done in small scale.	
Paddy	Water	r mana	agement	- Fish harvesting can be		
cum fish					ter depth of the trenches in paddy field.	
culture					mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	
				application.		



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 21st October, 2014

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 22nd to 26th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(17^{th}$ to 20^{th} October, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18^{th} to morning of 19^{th} Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3-29.5 °C, range of minimum temperature observed was 16.5-20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7-1.2 km/hr.

Weather forecast for next five days of Imphal-East (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 28.0 - 29.0 °C & minimum temp. 13.0 - 14.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 45 % (minimum RH). The average wind speed may be 3-4 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 it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		- Land preparation for sowing field pea may be started.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
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			
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing 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 beet (Palak)	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.



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					- 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.	
Cabbage/		Nu	ırsery		- Sowing of late season crop may be done.	
Cauliflowe	r		J		- Care should be taken for the young seedlings below 20 days old.	
Tomato/ C	hilli/	Nu	irsery		Nursery sowing of tomato/ chilli/ capsicum for early/off-season	
Capsicum			•		vegetable may be done under polyhouse only, open field is not advisable.	
Animal Sc	iences					
Name of the a	nimal	Grov	wth stage	Disease/ infestation	Agro-meteorological advisories	
					ogging around the sheds as it may help in mosquito breeding. nd around the birds/ animals sheds.	
Poultry			usceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
			ps (as and when		along with glucose.	
		requi	red)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
				Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be provided.	
~		4.1	2 1 6		Stir the litter material regularly.	
Sheep/ Goa	p/ Goat Above 3 months of age (as and when required)		as and when	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.	
Pig		Above 3 months of age (as and when required)		Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
				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	falo/	Abov	ve 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.	
				Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:				1	,	
Type of Farming	Stage		Management	Agro-metrological advisori	ies	
Carp/	Grow	· —		- Fish harvesting can be		
Catfish	out/				from unwanted vegetation and insects and water depth should be	
culture	nurseries			maintained at 1.0-1.5m.		
				- 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.		
				 Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. To stock fish for next year above practices may be done in small scale. 		
Paddy	Water management		gement	- Fish harvesting can be		
cum fish	wate	ı ınanı	igement		ter depth of the trenches in paddy field.	
culture					mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	
Cuituit				application.	mustard off care (1.1) as supplementary feed. Avoid insecticide/pesticide	
				аррисанон.		



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Imphal-West

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During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18^{th} to morning of 19^{th} Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was $27.3-29.5\ ^{\circ}\text{C}$, range of minimum temperature observed was $16.5-20.0\ ^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was $0.7-1.2\ \text{km/hr}$.

Weather forecast for next five days of Imphal-West (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of $27.0-29.0\,^{\circ}\text{C}$ & minimum temp. $12.0-14.0\,^{\circ}\text{C}$. Relative humidity may reach a maximum of 99 % (maximum RH) & 45 % (minimum RH). The average wind speed may be $4-5\,\text{km/hr}$ during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	,		
Kharif Rice	Maturity & harvesting		 - Drain it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		- Land preparation for sowing field pea may be started.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
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			
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing 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 beet (Palak)	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.



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					- 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.	
Cabbage/		Nurse	ery		- Sowing of late season crop may be done.	
Cauliflowe	er		•		- Care should be taken for the young seedlings below 20 days old.	
Tomato/ C	hilli/	Nurse	ery		Nursery sowing of tomato/ chilli/ capsicum for early/off-season	
Capsicum					<i>vegetable</i> may be done under polyhouse only, open field is not advisable.	
Animal Sc						
Name of the a		Growth		Disease/ infestation	Agro-meteorological advisories	
					logging around the sheds as it may help in mosquito breeding. nd around the birds/ animals sheds.	
Poultry	· ·		ceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
•			(as and when		along with glucose.	
		required	d)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
				Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be	
					provided.	
					Stir the litter material regularly.	
Sheep/ Goa	at		3 months of	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
			and when		pregnancy.	
Pig		required) Above 3 months of age (as and when required)		Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
J				Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
				(Diarrhea)	\ 2/	
				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	falo/		3 months of	Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.	
Mithun		-	and when	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	M	lanagement	Agro-metrological advisori	ies	
Farming Carp/	Grow			- Fish harvesting can b	e started	
Cat p/ Catfish	out/				from unwanted vegetation and insects and water depth should be	
culture	nurse	ries		maintained at 1.0-1.5m		
				- 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.		
				- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		
				- To stock fish for next year above practices may be done in small scale.		
Paddy	Water management		ement	- Fish harvesting can b		
cum fish					ter depth of the trenches in paddy field.	
culture					mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	
				application.		



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Senapati

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Significant past weather for the preceding bi-weekly of Imphal - West $(17^{th}$ to 20^{th} October, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18^{th} to morning of 19^{th} Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was $27.3-29.5\ ^{\rm o}{\rm C}$, range of minimum temperature observed was $16.5-20.0\ ^{\rm o}{\rm C}$, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was $0.7-1.2\ km/hr$.

Weather forecast for next five days of Senapati (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of $25.0-27.0\,^{\circ}\text{C}$ & minimum temp. $10.0-12.0\,^{\circ}\text{C}$. Relative humidity may reach a maximum of $100\,\%$ (maximum RH) & $45\,\%$ (minimum RH). The average wind speed may be $4\,\text{km/hr}$ during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	<u> </u>		
Kharif Rice	Maturity & harvesting		 - Drain it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		- Land preparation for sowing field pea may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
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			
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing 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 beet (Palak)	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.



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				- check that the new sprouts/ young plants in nursery beds are not	
				damaged 45-60 days old seedlings may be transplanted.	
Cabbage/		Nursery		- Sowing of late season crop may be done.	
Cauliflowe	ap•	ruiscry		- Care should be taken for the young seedlings below 20 days old.	
Tomato/ C		Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season</i>	
Capsicum	/11111/	ruisery		vegetable may be done under polyhouse only, open field is not advisable.	
Animal So	ciences			<u>, </u>	
Name of the		Growth stage	Disease/ infestation	Agro-meteorological advisories	
				logging around the sheds as it may help in mosquito breeding.	
	1easures 1			nd around the birds/ animals sheds.	
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	Open the hessian cloth hanging on the wall and cross ventilation must be provided.	
				Stir the litter material regularly.	
Sheep/ Go	at	Above 3 months of	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
энсер/ Об	aı	age (as and when required)	Tetanus	pregnancy.	
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 / Buf	falo/	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:				J.	
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp/	Grow	' —	- Fish harvesting can b		
Catfish	out/			from unwanted vegetation and insects and water depth should be	
culture	nurse	ries	maintained at 1.0-1.5m.		
			- 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.		
			- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		
Paddy	Water management		To stock fish for next year above practices may be done in small scale.Fish harvesting can be started.		
cum fish	vv ate	management		ter depth of the trenches in paddy field.	
culture				I mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	
Calture			application.	s mastered off cance (1.1) as supplementary reed. It void insecticide/positione	
			uppcation.		

(I. Meghachandra Singh) Scientist i/c, GKMS



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"Integrated Agromet Advisory Services"

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Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 22nd to 26th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(17^{th}$ to 20^{th} October, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18^{th} to morning of 19^{th} Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3-29.5 °C, range of minimum temperature observed was 16.5-20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7-1.2 km/hr.

Weather forecast for next five days of Tamenglong (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 27.0-30.0 °C & minimum temp. 12.0-15.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 44 % (minimum RH). The average wind speed may be 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 it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		- Land preparation for sowing field pea may be started.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
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			<u> </u>
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing 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 beet (Palak)	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.



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				- For 25 sq m area we need ½ kg seeds.	
				- check that the new sprouts/ young plants in nursery beds are not damaged.	
C-11/		Name		- 45-60 days old seedlings may be transplanted.	
Cabbage/ Cauliflowe		Nursery		- Sowing of late season crop may be done.	
Tomato/ C		N		- Care should be taken for the young seedlings below 20 days old.	
	·MIIII/	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.	
Capsicum Animal So				vegetable may be done under polynouse only, open neid is not advisable.	
Name of the a		Growth stage	Disease/ infestation	Agro-meteorological advisories	
				logging around the sheds as it may help in mosquito breeding.	
- Provide ci	ean arini 1easures 1	ang water to birds at to reduce flies and mo	na animais. Avoia water i osquitoes population in a	nogging around the sneds as it may neip in mosquito breeding. Indicate the sneds animals sheds.	
Poultry	icusur es	All susceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
1 oditi j		groups (as and when		along with glucose.	
		required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
			Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be	
			Litter management	provided.	
				Stir the litter material regularly.	
Sheep/ Goa	at.	Above 3 months of	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
энсер, со	age (as and when required)		Totalids	pregnancy.	
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 / Buf	falo/	Above 3 months of	Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.	
Mithun		age (as and when	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/	Grow	· —	- Fish harvesting can b		
Catfish	out/		- Ponds should be free from unwanted vegetation and insects and water depth should be		
culture	nurseries		maintained at 1.0-1.5m.		
			- 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.		
			- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		
				t year above practices may be done in small scale.	
Paddy	Water	r management	- Fish harvesting can b		
cum fish				ter depth of the trenches in paddy field.	
culture			 Provide rice bran and application. 	I mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 21st October, 2014

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 22nd to 26th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th October, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18^{th} to morning of 19^{th} Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3-29.5 °C, range of minimum temperature observed was 16.5-20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7-1.2 km/hr.

Weather forecast for next five days of Thoubal (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 28.0-30.0 °C & minimum temp. 13.0-15.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 49 % (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			
Kharif Rice	Maturity & harvesting		 - Drain it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		- Land preparation for sowing field pea may be started.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
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	<u> </u>		
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing 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 beet (Palak)	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.



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				- 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.		
Cabbage/		Nursery		- Sowing of late season crop may be done.		
Cauliflowe	er			- Care should be taken for the young seedlings below 20 days old.		
Tomato/ C	hilli/	Nursery		Nursery sowing of tomato/ chilli/ capsicum for early/off-season		
Capsicum				<i>vegetable</i> may be done under polyhouse only, open field is not advisable.		
Animal So			T			
Name of the		Growth stage	Disease/ infestation	Agro-meteorological advisories		
				logging around the sheds as it may help in mosquito breeding. and around the birds/ animals sheds.		
Poultry		All susceptible a	ge Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days		
		groups (as and w	hen	along with glucose.		
		required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.		
			Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be provided. Stir the litter material regularly.		
Sheep/ Go	Above 3 months of age (as and when required)			In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.		
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 / Buf	falo/	Above 3 months		- Give Tolzan-F @30 ml/ 100 kg body weight.		
Mithun		age (as and when	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	Managemen	nt Agro-metrological advisor	ries		
Carp/	Grow	_	- Fish harvesting can b	pe started.		
Catfish	out/		- Ponds should be free	- Ponds should be free from unwanted vegetation and insects and water depth should be		
culture	nurse	ries	maintained at 1.0-1.5n			
			-	- 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.		
				- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		
D. 11	YYY .			t year above practices may be done in small scale.		
Paddy	Water	management	- Fish harvesting can b			
cum fish				ater depth of the trenches in paddy field. I mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide		
culture			application.	a mustard on cake (1.1) as supplementary feed. Avoid hisecticide/pesticide		



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 21st October, 2014

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 22nd to 26th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(17^{th}$ to 20^{th} October, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18^{th} to morning of 19^{th} Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3-29.5 °C, range of minimum temperature observed was 16.5-20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7-1.2 km/hr.

Weather forecast for next five days of Ukhrul (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 24.0-26.0 °C & minimum temp. 9.0-11.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 49 % (minimum RH). The average wind speed may be 3-4 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 it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		- Land preparation for sowing field pea may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
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			
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing 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 beet (Palak)	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.



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				- check that the new sprouts/ young plants in nursery beds are not	
				damaged 45-60 days old seedlings may be transplanted.	
Cabbaga		Nurcory		- Sowing of late season crop may be done.	
	Cabbage/ Nursery			- Care should be taken for the young seedlings below 20 days old.	
	Cauliflower Tomato/ Chilli/ Nursery			Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season</i>	
Capsicum	MIIII/	Nursery		vegetable may be done under polyhouse only, open field is not advisable.	
Animal So	oi on o oc			vegetable may be done under polynouse only, open field is not advisable.	
Name of the		Growth stage	Disease/ infestation	Agro-meteorological advisories	
		_		logging around the sheds as it may help in mosquito breeding.	
- Take up m	ean urmir 1easures 1	to reduce flies and mo	osquitoes population in a	nd around the birds/ animals sheds.	
Poultry		All susceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
•		groups (as and when		along with glucose.	
		required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
			Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be	
				provided.	
				Stir the litter material regularly.	
Sheep/ Go	at	Above 3 months of	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
		age (as and when		pregnancy.	
n' -		required) Above 3 months of	Skin infection	Circ Lucrostic (Ludestic tal.) @ 10m /22h a la de curi alt	
Pig		age (as and when		Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
		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 / Buf	falo/	Above 3 months of	Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.	
Mithun		age (as and when	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	Management	Agro-metrological advisor	ies	
Farming	Stage	Munugement	11g1v-men orogical autisories		
Carp/	Grow	-	- Fish harvesting can b		
Catfish	out/			from unwanted vegetation and insects and water depth should be	
culture nurse		ries	maintained at 1.0-1.5m.		
				rided 1-2 times a day @ 3 % body weight per day.	
				ortified with vitamins and minerals should be provided.	
				4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	
D 11			- To stock fish for next year above practices may be done in small scale.		
Paddy	Water management		- Fish harvesting can be started.		
cum fish			- Maintained 1.0 m water depth of the trenches in paddy field Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide		
culture			application.		
			application.		

(I. Meghachandra Singh) Scientist i/c, GKMS



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 21st 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 22nd to 26th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(17^{th}$ to 20^{th} October, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18^{th} to morning of 19^{th} Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3-29.5 °C, range of minimum temperature observed was 16.5-20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7-1.2 km/hr.

Weather forecast for next five days of Bishnupur (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of $28.0-30.0~^{\circ}\text{C}$ & minimum temp. $13.0-15.0~^{\circ}\text{C}$. Relative humidity may reach a maximum of 99 % (maximum RH) & 47 % (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 it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap o panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		- Land preparation for sowing field pea may be started.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
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			grams, seeds in well volumeter gods with
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing 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 beet (Palak)	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.



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					- 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.	
Cabbage/		Nu	rsery		- Sowing of late season crop may be done.	
Cauliflowe	er				- Care should be taken for the young seedlings below 20 days old.	
Tomato/ C	hilli/	Nu	rsery		Nursery sowing of tomato/ chilli/ capsicum for early/off-season	
Capsicum					vegetable may be done under polyhouse only, open field is not advisable.	
Animal So	ciences					
Name of the	animal	Grov	vth stage	Disease/ infestation	Agro-meteorological advisories	
					logging around the sheds as it may help in mosquito breeding.	
	easures 1				nd around the birds/ animals sheds.	
Poultry			usceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
			os (as and when		along with glucose.	
		requi	icu)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
				Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be	
					provided.	
					Stir the litter material regularly.	
Sheep/ Goat		Above 3 months of age (as and when required)		Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
					pregnancy.	
Pig		Above 3 months of age (as and when required)		Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
O				Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
				(Diarrhea)	0	
				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 / Buf	falo/	Above 3 months of age (as and when required)		Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.	
Mithun				Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
				Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Eigh am.				Tiens/ // ouries	Topicale spray may be used twice daily on the directed parts.	
Fishery:	G;		34	A		
Type of Farming	Stage		Management	Agro-metrological advisori	ies	
Carp/	Grow	ow – Fis		- Fish harvesting can b	e started.	
Catfish	out/			- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.		
culture						
Cuitaic				- 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.		
				- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		
				- To stock fish for next year above practices may be done in small scale.		
Paddy	Water management		- Fish harvesting can be started.			
cum fish	•			- Maintained 1.0 m water depth of the trenches in paddy field.		
					mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	
Cultule				1 TO VIGO TICC DI all' alla	mastara on care (1.1) as supplementary reed. Tivora insecticiae/pesticiae	



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 21st October, 2014

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 22nd to 26th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(17^{th}$ to 20^{th} October, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18^{th} to morning of 19^{th} Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3-29.5 °C, range of minimum temperature observed was 16.5-20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7-1.2 km/hr.

Weather forecast for next five days of Chandel (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 28.0 - 30.0 °C & minimum temp. 12.0 - 15.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 52 % (minimum RH). The average wind speed may be 3 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 it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		- Land preparation for sowing field pea may be started.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
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			<u> </u>
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing 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 beet (Palak)	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.



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cum fish culture	_		 Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application. 		
Paddy	Water management		- To stock fish for next year above practices may be done in small scale Fish harvesting can be started.		
			- Well balanced feed for	ortified with vitamins and minerals should be provided. Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	
culture nur		ries	maintained at 1.0-1.5m Feeds should be provided 1-2 times a day @ 3 % body weight per day.		
Catfish	out/	iaa	- Ponds should be free from unwanted vegetation and insects and water depth should be		
Carp/	Grow –		- Fish harvesting can be started.		
Type of Farming	Stage	Management	Agro-metrological advisori	ies	
Fishery:				<u> </u>	
		required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Mithun		age (as and when	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
Cattle / Buff	falo/	Above 3 months of	Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.	
			TICKS	while brushing the animal.	
			Deworming Ticks	- Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week	
		required)	(Diarrhea)	, <u>,</u>	
- - 8		age (as and when	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
Pig		Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
Sheep/ Goa	Above 3 months age (as and when required)		Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.	
				provided. Stir the litter material regularly.	
			Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be	
		required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
1 outly		groups (as and when	Coccidiosis	along with glucose.	
- Take up m Poultry	ieasures t	o reduce flies and mo All susceptible age	Coccidiosis	nd around the birds/ animals sheds. Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
				ogging around the sheds as it may help in mosquito breeding.	
Name of the a	animal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Animal Sc	ciences			j g	
Capsicum	·111111/	Nursery		vegetable may be done under polyhouse only, open field is not advisable.	
Cauliflowe Tomato/ C		Nursery		- Care should be taken for the young seedlings below 20 days old. Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season</i>	
Cabbage/		Nursery		- Sowing of late season crop may be done.	
~				- 45-60 days old seedlings may be transplanted.	
				damaged.	
				- For 25 sq m area we need ½ kg seeds check that the new sprouts/ young plants in nursery beds are not	