

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th 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 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}$ to 13^{th} October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10^{th} Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8-30.2 °C, range of minimum temperature observed was 18.3-20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3-0.5 km/hr.

Weather forecast for next five days of Churachandpur (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 27.0-29.0 °C & minimum temp. 17.0-19.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 85 % (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	J	1	J.
Kharif Rice			- Water level should be maintained at 5cm level before maturity but
	Grain filling to		drain it out completely 10 days before harvesting.
	maturity &		- Sprays mentioned below may be done preferably during evening hours.
	harvesting		For early sown crops, harvest if 80 % of the spikelet have turned yellow.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit
		Bakani	of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Rapeseed/	sowing		- In foot-hills and upland area zero tillage rape seed may be sown just
mustard			after harvesting rice to make full utilization of the residual moisture.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain
<i>J</i>	harvesting		required moisture content before storage for seed.
Groundnut	Maturity to		- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint
	harvesting		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	Fruiting to		Weeding may be done.
	maturity	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
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			
Pea	Land		- Land preparation for sowing pea may be started.
	preparation		
Onion	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive
			measures against soil borne diseases.
			- Also check that the new sprouts are not damaged.
Cauliflower	Nursery		- Sowing of late season crop may be done.
			- Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/	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.



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Mango		Ap	pearance of		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or
		nev	w flush in		Plant Growth Promoting Rhizobium Bacteria (PGPR) or
		bea	aring trees		Organic formulation like Jivamrut
					(Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse
					grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7
					days. Stir the formulation three times a day).
					Use it for 1 acre with irrigation water.
Animal S	ciences	•			
Name of the	animal	Grov	wth stage	Disease/ infestation	Agro-meteorological advisories
- Provide cl	lean drinl	king wa	ater to birds an	d animals. Avoid water l	logging around the sheds as it may help in mosquito breeding.
- Take up n	neasures				nd around the birds/ animals sheds.
Poultry			usceptible age	Coccidiosis	Give Coximar @ 2 g/ lit of drinking water for 5-7 days along with
			ps (as and when		glucose.
		requi	red)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Go	at	Abov	e 3 months of	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of
_			as and when		pregnancy.
		required)			
Pig		Above 3 months of age (as and when required)		Coccidial infection	Of $Ornidazole (O_2)$ 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 while brushing the animal.
Cattle / But	ffalo/	Ahos	ve 3 months of	Amphistomiasis	- Give Tolzan-F @30 ml/ 100 kg body weight.
Mithun	ilaio/		as and when		
		requi		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 -			- Ponds should be free	from unwanted vegetation and insects and water depth should be
Cat p/	out/			maintained at 1.0-1.5m	•
culture	nurseries			- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.	
curture nurse.		CIICS			ortified with vitamins and minerals should be provided.
					Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.
					ngs/ha can be stocked. Sampling of fish should be done by regular netting.
Paddy	Wate	r mana	agement		ter depth of the trenches in paddy field.
cum fish	,, ato				mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide
culture				application.	. mastara on tante (1.1) as supprementally reconstructed insectional positional
	е			T I	



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th 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 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}$ to 13^{th} October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10^{th} Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8-30.2 °C, range of minimum temperature observed was 18.3-20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3-0.5 km/hr.

Weather forecast for next five days of Imphal-East (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of $27.0-30.0\,^{\circ}\text{C}$ & minimum temp. $17.0-20.0\,^{\circ}\text{C}$. Relative humidity may reach a maximum of $100\,\%$ (maximum RH) & 89 % (minimum RH). The average wind speed may be $0-4\,\text{km/hr}$ during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	_!		,
Kharif Rice	Grain filling to maturity & harvesting	Neck Blast	 Water level should be maintained at 5cm level before maturity but drain it out completely 10 days before harvesting. Sprays mentioned below may be done preferably during evening hours. For early sown crops, harvest if 80 % of the spikelet have turned yellow. Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight Sheath blight/ Bakani Aphid, mealy bugs	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam). Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water. Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
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.
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	Fruiting to maturity	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
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			
Pea	Land preparation		- Land preparation for sowing pea may be started.
Onion	Nursery raising		 Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Also check that the new sprouts are not damaged.
Cauliflower	Nursery		Sowing of late season crop may be done.Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	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.



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Mango		Ap	pearance of		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or
		ne	w flush in		Plant Growth Promoting Rhizobium Bacteria (PGPR) or
		bea	aring trees		Organic formulation like Jivamrut
					(Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse
					grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7
					days. Stir the formulation three times a day).
					Use it for 1 acre with irrigation water.
Animal So	ciences	•			
Name of the a	animal	Grov	wth stage	Disease/ infestation	Agro-meteorological advisories
- Provide cle	ean drink	king wa	ater to birds an	d animals. Avoid water l	logging around the sheds as it may help in mosquito breeding.
- Take up m	neasures 1			squitoes population in a	nd around the birds/ animals sheds.
Poultry			usceptible age	Coccidiosis	Give Coximar @ 2 g/ lit of drinking water for 5-7 days along with
			ps (as and when		glucose.
		requi	ired)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goa	at	Abov	ve 3 months of	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of
_			as and when		pregnancy.
		required)			
Pig		Above 3 months of age (as and when required)		Coccidial infection	Of $Ornidazole (O_2)$ 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
					while brushing the animal.
Cattle / Buf	falo/		ve 3 months of	Amphistomiasis	- Give Tolzan-F @30 ml/ 100 kg body weight.
Mithun			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 advisori	ies
Farming	Junge		gee.re	1-gro men orogical au (1501)	
Carp/	Grow -			- Ponds should be free	from unwanted vegetation and insects and water depth should be
Catfish	out/			maintained at 1.0-1.5m	1.
culture	nurseries			- Feeds should be prov	ided 2-3 times a day @ 5-10% body weight per day.
				- Well balanced feed fo	ortified with vitamins and minerals should be provided.
				- Apply Green AQ @ 4	4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.
					ngs/ha can be stocked. Sampling of fish should be done by regular netting.
Paddy	Water	r mana			ter depth of the trenches in paddy field.
cum fish				- Provide rice bran and	mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide
culture				application.	



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Imphal-West

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During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10^{th} Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8-30.2 °C, range of minimum temperature observed was 18.3-20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3-0.5 km/hr.

Weather forecast for next five days of Imphal-West (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 28.0-30.0 °C & minimum temp. 18.0-20.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 81 % (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	<u>, </u>		,
Kharif Rice			- Water level should be maintained at 5cm level before maturity but
	Grain filling to		drain it out completely 10 days before harvesting.
	maturity &		- Sprays mentioned below may be done preferably during evening hours.
	harvesting		For early sown crops, harvest if 80 % of the spikelet have turned yellow.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit
		Bakani	of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres
		1 , 3 &	of water.
Rapeseed/	sowing		- In foot-hills and upland area zero tillage rape seed may be sown just
mustard			after harvesting rice to make full utilization of the residual moisture.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain
v	harvesting		required moisture content before storage for seed.
Groundnut	Maturity to		- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint
	harvesting		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	Fruiting to		Weeding may be done.
	maturity	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
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			
Pea	Land		- Land preparation for sowing pea may be started.
	preparation		
Onion	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive
			measures against soil borne diseases.
			- Also check that the new sprouts are not damaged.
Cauliflower	Nursery		- Sowing of late season crop may be done.
			- Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/	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.



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Mango		Ap	pearance of		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or
		ne	w flush in		Plant Growth Promoting Rhizobium Bacteria (PGPR) or
		bea	aring trees		Organic formulation like Jivamrut
					(Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse
					grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7
					days. Stir the formulation three times a day).
					Use it for 1 acre with irrigation water.
Animal So	ciences	•			
Name of the a	animal	Grov	wth stage	Disease/ infestation	Agro-meteorological advisories
- Provide cle	ean drink	king wa	ater to birds an	d animals. Avoid water l	logging around the sheds as it may help in mosquito breeding.
- Take up m	neasures 1			squitoes population in a	nd around the birds/ animals sheds.
Poultry			usceptible age	Coccidiosis	Give Coximar @ 2 g/ lit of drinking water for 5-7 days along with
			ps (as and when		glucose.
		requi	ired)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goa	at	Abov	ve 3 months of	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of
_			as and when		pregnancy.
		required)			
Pig		Above 3 months of age (as and when required)		Coccidial infection	Of $Ornidazole (O_2)$ 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
					while brushing the animal.
Cattle / Buf	falo/		ve 3 months of	Amphistomiasis	- Give Tolzan-F @30 ml/ 100 kg body weight.
Mithun			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 advisori	ies
Farming	Junge		gee.re	1-gro men orogical au (1501)	
Carp/	Grow -			- Ponds should be free	from unwanted vegetation and insects and water depth should be
Catfish	out/			maintained at 1.0-1.5m	1.
culture	nurseries			- Feeds should be prov	ided 2-3 times a day @ 5-10% body weight per day.
				- Well balanced feed fo	ortified with vitamins and minerals should be provided.
				- Apply Green AQ @ 4	4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.
					ngs/ha can be stocked. Sampling of fish should be done by regular netting.
Paddy	Water	r mana			ter depth of the trenches in paddy field.
cum fish				- Provide rice bran and	mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide
culture				application.	



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



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MANIPUR BULLETIN 14th October, 2014

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}$ to 13^{th} October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10^{th} Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8-30.2 °C, range of minimum temperature observed was 18.3-20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3-0.5 km/hr.

Weather forecast for next five days of Senapati (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of $25.0-27.0\,^{\circ}\text{C}$ & minimum temp. $14.0-16.0\,^{\circ}\text{C}$. Relative humidity may reach a maximum of $100\,\%$ (maximum RH) & 83 % (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			
Kharif Rice	Grain filling to maturity & harvesting		 Water level should be maintained at 5cm level before maturity but drain it out completely 10 days before harvesting. Sprays mentioned below may be done preferably during evening hours. For early sown crops, harvest if 80 % of the spikelet have turned yellow.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
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.
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	Fruiting to maturity	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
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	,		
Pea	Land preparation		- Land preparation for sowing pea may be started.
Onion	Nursery raising		 Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Also check that the new sprouts are not damaged.
Cauliflower	Nursery		 Sowing of late season crop may be done. Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	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.



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"Integrated Agromet Advisory Services"

Mango		nev	pearance of w flush in aring trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or Plant Growth Promoting Rhizobium Bacteria (PGPR) or Organic formulation like Jivamrut	
		Dea	unig nees		(Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse	
					grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7	
					days. Stir the formulation three times a day).	
					Use it for 1 acre with irrigation water.	
Animal Sc	pioneos				Ose it for 1 acre with infigation water.	
Name of the a		Grow	vth stage	Disease/ infestation	Agro-meteorological advisories	
- Provide clo	ean drink				logging around the sheds as it may help in mosquito breeding.	
					nd around the birds/ animals sheds.	
Poultry			isceptible age	Coccidiosis	Give Coximar @ 2 g/ lit of drinking water for 5-7 days along with	
•			s (as and when		glucose.	
		requi	red)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Sheep/ Goa	at	Abov	e 3 months of	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
•		age (as and when required)			pregnancy.	
Pig		Above 3 months of 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/		e 3 months of	Amphistomiasis	- 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:					J	
Type of Farming	Stage		Management	Agro-metrological advisori	ies	
Carp/	Grow	_		- Ponds should be free	from unwanted vegetation and insects and water depth should be	
Catfish	out/			maintained at 1.0-1.5m	1.	
culture	lture nurseries			- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
				- Well balanced feed fo	ortified with vitamins and minerals should be provided.	
				- Apply Green AQ @ 4	4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	
				- 8000-10,000 fingerlin	ngs/ha can be stocked. Sampling of fish should be done by regular netting.	
Paddy	Water	mana	gement		ter depth of the trenches in paddy field.	
cum fish					mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	
culture				application.		



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th October, 2014

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 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}$ to 13^{th} October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10^{th} Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8-30.2 °C, range of minimum temperature observed was 18.3-20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3-0.5 km/hr.

Weather forecast for next five days of Tamenglong (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of $28.0-31.0~^{\circ}\text{C}$ & minimum temp. $18.0-20.0~^{\circ}\text{C}$. Relative humidity may reach a maximum of 100~% (maximum RH) & 75 % (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			- Water level should be maintained at 5cm level before maturity but
	Grain filling to		drain it out completely 10 days before harvesting.
	maturity &		- Sprays mentioned below may be done preferably during evening hours.
	harvesting		For early sown crops, harvest if 80 % of the spikelet have turned yellow.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit
		Bakani	of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres
		1 , 3 &	of water.
Rapeseed/	sowing		- In foot-hills and upland area zero tillage rape seed may be sown just
mustard			after harvesting rice to make full utilization of the residual moisture.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain
v	harvesting		required moisture content before storage for seed.
Groundnut	Maturity to		- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint
	harvesting		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	Fruiting to		Weeding may be done.
	maturity	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
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			
Pea	Land		- Land preparation for sowing pea may be started.
	preparation		
Onion	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive
			measures against soil borne diseases.
			- Also check that the new sprouts are not damaged.
Cauliflower	Nursery		- Sowing of late season crop may be done.
			- Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/	Nursery		Nursery sowing of tomato/ chilli/ capsicum for early/off-season
Capsicum			vegetable may be done under polyhouse only, open field is not advisable.



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



"Integrated Agromet Advisory Services"

Mango		Ap	pearance of		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or
			v flush in		Plant Growth Promoting Rhizobium Bacteria (PGPR) or
		bea	ring trees		Organic formulation like Jivamrut
					(Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse
					grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7
					days. Stir the formulation three times a day).
					Use it for 1 acre with irrigation water.
Animal S	ciences	'			
Name of the	animal	Grow	th stage	Disease/ infestation	Agro-meteorological advisories
- Provide cl	lean drin	king wa	ter to birds an	d animals. Avoid water l	logging around the sheds as it may help in mosquito breeding.
- Take up n	neasures	to redu	ce flies and mo	squitoes population in a	nd around the birds/ animals sheds.
Poultry			sceptible age	Coccidiosis	Give Coximar @ 2 g/lit of drinking water for 5-7 days along with
			s (as and when		glucose.
		requi	red)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Go	at	Abov	e 3 months of	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of
_		age (as and when required)			pregnancy.
Pig		Above 3 months of age (as and when required)		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 while brushing the animal.
Cattle / But	ffalo/	Abov	e 3 months of	Amphistomiasis	- Give Tolzan-F @30 ml/ 100 kg body weight.
Mithun			is 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 advisori	ies
Farming					
Carp/	Grow –				from unwanted vegetation and insects and water depth should be
Catfish	out/			maintained at 1.0-1.5m.	
culture	nurseries				ided 2-3 times a day @ 5-10% body weight per day.
					ortified with vitamins and minerals should be provided.
					4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.
					ngs/ha can be stocked. Sampling of fish should be done by regular netting.
Paddy	Wate	r mana			ter depth of the trenches in paddy field.
cum fish					mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide
culture	ıre			application.	



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th 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 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}$ to 13^{th} October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10^{th} Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8-30.2 °C, range of minimum temperature observed was 18.3-20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3-0.5 km/hr.

Weather forecast for next five days of Thoubal (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 27.0 - 30.0 °C & minimum temp. 18.0 - 20.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 91 % (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	Grain filling to maturity & harvesting	Neck Blast	 Water level should be maintained at 5cm level before maturity but drain it out completely 10 days before harvesting. Sprays mentioned below may be done preferably during evening hours. For early sown crops, harvest if 80 % of the spikelet have turned yellow. Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight Sheath blight/ Bakani Aphid, mealy bugs	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam). Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water. Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
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.
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	Fruiting to maturity	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
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			
Pea	Land preparation		- Land preparation for sowing pea may be started.
Onion	Nursery raising		 Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Also check that the new sprouts are not damaged.
Cauliflower	Nursery		Sowing of late season crop may be done.Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	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.



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



"Integrated Agromet Advisory Services"

Mango		Ap	pearance of		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or
			w flush in		Plant Growth Promoting Rhizobium Bacteria (PGPR) or
		bea	aring trees		Organic formulation like Jivamrut
			-		(Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse
					grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7
					days. Stir the formulation three times a day).
					Use it for 1 acre with irrigation water.
Animal S	ciences	·			
Name of the	animal	Grov	vth stage	Disease/ infestation	Agro-meteorological advisories
- Provide cl	ean drin	king wa	ater to birds an	d animals. Avoid water l	logging around the sheds as it may help in mosquito breeding.
- Take up n	neasures	to redu	ice flies and mo	squitoes population in a	nd around the birds/ animals sheds.
Poultry			usceptible age	Coccidiosis	Give Coximar @ 2 g/lit of drinking water for 5-7 days along with
			os (as and when		glucose.
		requi	red)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Go	at	Abov	e 3 months of	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of
_		age (as and when required)		1	pregnancy.
Pig		Above 3 months of age (as and when required)		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 while brushing the animal.
Cattle / Buf	ffalo/	Abov	ve 3 months of	Amphistomiasis	- Give Tolzan-F @30 ml/ 100 kg body weight.
Mithun			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 advisori	ies
Farming				D 1 1 111 6	
Carp/	Grow –				from unwanted vegetation and insects and water depth should be
Catfish	out/			maintained at 1.0-1.5m.	
culture	nurseries				ided 2-3 times a day @ 5-10% body weight per day.
					ortified with vitamins and minerals should be provided.
				- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	
D. 11					ngs/ha can be stocked. Sampling of fish should be done by regular netting.
Paddy	wate	r mana			ter depth of the trenches in paddy field.
cum fish					mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide
culture	ıre			application.	



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th 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 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}$ to 13^{th} October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10^{th} Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8-30.2 °C, range of minimum temperature observed was 18.3-20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3-0.5 km/hr.

Weather forecast for next five days of Ukhrul (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 25.0 - 26.0 °C & minimum temp. 14.0 - 16.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 79 % (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			J.
Kharif Rice			- Water level should be maintained at 5cm level before maturity but
	Grain filling to maturity & harvesting		drain it out completely 10 days before harvesting.
			- Sprays mentioned below may be done preferably during evening hours.
			For early sown crops, harvest if 80 % of the spikelet have turned yellow.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit
		Bakani	of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres
			of water.
Rapeseed/	sowing		- In foot-hills and upland area zero tillage rape seed may be sown just
mustard			after harvesting rice to make full utilization of the residual moisture.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain
v	harvesting		required moisture content before storage for seed.
Groundnut	Maturity to		- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint
	harvesting		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	Fruiting to		Weeding may be done.
Đ	maturity	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
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			
Pea	Land		- Land preparation for sowing pea may be started.
	preparation		
Onion	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive
			measures against soil borne diseases.
			- Also check that the new sprouts are not damaged.
Cauliflower	Nursery		- Sowing of late season crop may be done.
			- Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/	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.



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



"Integrated Agromet Advisory Services"

Mango		Aı	ppearance of		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or	
		ne	w flush in		Plant Growth Promoting Rhizobium Bacteria (PGPR) or	
		be	aring trees		Organic formulation like Jivamrut	
			•		(Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse	
					grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7	
					days. Stir the formulation three times a day).	
					Use it for 1 acre with irrigation water.	
Animal Sc	ciences					
Name of the animal		Gro	wth stage	Disease/ infestation	Agro-meteorological advisories	
- Provide cle	ean drinl	cing w	ater to birds an	d animals. Avoid water l	logging around the sheds as it may help in mosquito breeding.	
- Take up m	easures			squitoes population in a	nd around the birds/ animals sheds.	
Poultry			susceptible age	Coccidiosis	Give Coximar @ 2 g/ lit of drinking water for 5-7 days along with	
			ps (as and when		glucose.	
		requ	ired)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Sheep/ Goa	at	Above 3 months of age (as and when required)		Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
					pregnancy.	
D .				0 11 11 6 11		
Pig		Above 3 months of age (as and when		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	
G (4) (5) 6	0.1. /	41 0 1	2 4 6	4 1	while brushing the animal.	
Cattle / Buff Mithun	talo/	Above 3 months of age (as and when		Amphistomiasis	- Give Tolzan-F @30 ml/ 100 kg body weight.	
Milliun		requ		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	Stage		Management Agro-metrological advis		ies	
Farming						
Carp/	Grow –				from unwanted vegetation and insects and water depth should be	
Catfish	out/			maintained at 1.0-1.5m Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
culture	ure nurserie				ortified with vitamins and minerals should be provided.	
				- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		
Dodd-	Water management		a gamant	 - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. - Maintained 1.0 m water depth of the trenches in paddy field. 		
cum fish	Paddy Water managem		agement			
				application.	I mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	
culture			аррисации.			



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th 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 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}$ to 13^{th} October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10^{th} Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8-30.2 °C, range of minimum temperature observed was 18.3-20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3-0.5 km/hr.

Weather forecast for next five days of Bishnupur (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of $28.0-30.0\,^{\circ}\text{C}$ & minimum temp. $19.0-20.0\,^{\circ}\text{C}$. Relative humidity may reach a maximum of $100\,\%$ (maximum RH) & 86 % (minimum RH). The average wind speed may be $2\text{-}4\,\text{km/}$ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	<u> </u>		J.
Kharif Rice			- Water level should be maintained at 5cm level before maturity but
	Grain filling to maturity & harvesting		drain it out completely 10 days before harvesting.
			- Sprays mentioned below may be done preferably during evening hours.
			For early sown crops, harvest if 80 % of the spikelet have turned yellow.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit
		Bakani	of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres
		r ., jg.	of water.
Rapeseed/	sowing		- In foot-hills and upland area zero tillage rape seed may be sown just
mustard	Ç		after harvesting rice to make full utilization of the residual moisture.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain
Soybean	harvesting		required moisture content before storage for seed.
Groundnut	Maturity to		- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint
	harvesting		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	Fruiting to		Weeding may be done.
8	maturity	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check
O			for germination of seeds or fungal growth. After proper drying, store
			grains/ seeds in well ventilated godowns.
Horticulture Crops			· •
Pea	Land		- Land preparation for sowing pea may be started.
	preparation		
Onion	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive
			measures against soil borne diseases.
			- Also check that the new sprouts are not damaged.
Cauliflower	Nursery		- Sowing of late season crop may be done.
			- Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/	Nursery		Nursery sowing of tomato/ chilli/ capsicum for early/off-season
Capsicum	-		vegetable may be done under polyhouse only, open field is not advisable.



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



"Integrated Agromet Advisory Services"

Mango		Aı	pearance of		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or	
		ne	w flush in		Plant Growth Promoting Rhizobium Bacteria (PGPR) or	
		be	aring trees		Organic formulation like Jivamrut	
			•		(Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse	
					grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7	
					days. Stir the formulation three times a day).	
					Use it for 1 acre with irrigation water.	
Animal Sc	iences					
Name of the a	nimal	Growth stage		Disease/ infestation	Agro-meteorological advisories	
- Provide cle	an drinl	king w	ater to birds an	d animals. Avoid water l	logging around the sheds as it may help in mosquito breeding.	
- Take up m	easures			squitoes population in a	nd around the birds/ animals sheds.	
Poultry			susceptible age	Coccidiosis	Give Coximar @ 2 g/lit of drinking water for 5-7 days along with	
			ps (as and when		glucose.	
		requ	ired)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Sheep/ Goa	nt	Above 3 months of age (as and when required)		Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
					pregnancy.	
D .				0 11 11 6 11		
Pig		Above 3 months of age (as and when		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	
G (4) (5) 6	0.7. /	41 2 4		4 1	while brushing the animal.	
Cattle / Buff Mithun	ialo/	Above 3 months of age (as and when		Amphistomiasis	- Give Tolzan-F @30 ml/ 100 kg body weight.	
Milliun		requ		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	Stage		Management	Agro-metrological advisori	ies	
Farming	_					
Carp/	Grow -				from unwanted vegetation and insects and water depth should be	
Catfish	out/			maintained at 1.0-1.5m.		
culture	nurseries				ided 2-3 times a day @ 5-10% 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	NY .			- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.		
Paddy			agement		ter depth of the trenches in paddy field.	
cum fish					I mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	
culture			application.			



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th 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 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}$ to 13^{th} October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10^{th} Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8-30.2 °C, range of minimum temperature observed was 18.3-20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3-0.5 km/hr.

Weather forecast for next five days of Chandel (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 28.0 - 31.0 °C & minimum temp. 19.0 - 21.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 83 % (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	Grain filling to maturity & harvesting	Neck Blast Bacterial leaf blight Sheath blight/ Bakani Aphid, mealy bugs	 Water level should be maintained at 5cm level before maturity but drain it out completely 10 days before harvesting. Sprays mentioned below may be done preferably during evening hours. For early sown crops, harvest if 80 % of the spikelet have turned yellow. Spray Tricyclazole 75% @ 10g/15 litres of water. Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam). Carbendazim @ 30-40g/15 lit of water or Hexaclonazole @ 15ml/15 lit of water. Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/15 litres
Damassa d/	a a vien a		of water.
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.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain
Soybean	harvesting		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	Fruiting to maturity	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage	J		- 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>		<u> </u>
Pea	Land preparation		- Land preparation for sowing pea may be started.
Onion	Nursery raising		 Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Also check that the new sprouts are not damaged.
Cauliflower	Nursery		Sowing of late season crop may be done.Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	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.



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Mango		Ap	pearance of		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or	
			w flush in		Plant Growth Promoting Rhizobium Bacteria (PGPR) or	
		bearing trees			Organic formulation like Jivamrut	
					(Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse	
					grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7	
					days. Stir the formulation three times a day).	
					Use it for 1 acre with irrigation water.	
Animal S	ciences					
Name of the animal		Grov	wth stage	Disease/ infestation	Agro-meteorological advisories	
- Provide cl	ean drin	king wa	ater to birds an	d animals. Avoid water l	logging around the sheds as it may help in mosquito breeding.	
- Take up n	neasures	to redu	ice flies and mo	squitoes population in a	nd around the birds/ animals sheds.	
Poultry			usceptible age	Coccidiosis	Give Coximar @ 2 g/lit of drinking water for 5-7 days along with	
			ps (as and when		glucose.	
		requi	ired)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
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	
_					pregnancy.	
		required)				
Pig		Above 3 months of		Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
		age (as and when	(Diarrhea)			
		required)		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	ffalo/	Above 3 months of	Amphistomiasis	- 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	Stage		Management	Agro-metrological advisori	ies	
Farming						
Carp/	Grow –				from unwanted vegetation and insects and water depth should be	
Catfish	out/			maintained at 1.0-1.5m.		
culture	nurseries				ided 2-3 times a day @ 5-10% body weight per day.	
					ortified with vitamins and minerals should be provided.	
				- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		
D. 11	W.			- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.		
Paddy Water management		agement	- Maintained 1.0 m water depth of the trenches in paddy field.			
cum fish					mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	
culture	lture			application.		