HIP-I-RI ICAR

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



E-mail: agromet_mnp@yahoo.co.uk

"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 29th October, 2013

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 30th October to 3rd November, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur (30 th October
Imphal - West (25 th to 28 th October, 2013)	to 3 rd November, 2013)
During the past four days the sky was cloudy but partly cloudy during afternoon hours of 28 Oct. 22.2 mm rainfall was recorded during past four days. Maximum temperature range observed was $21.2 - 27.8$ °C, range of minimum temperature observed was $15.5 - 17.2$ °C, mean relative humidity observed in morning and afternoon were 93.5 % and 77.0 % respectively. The average wind speed range was $0.2 - 3.2$ km/hr.	There may be no rain upto Sunday. The sky may be clear to partly cloudy with maximum temp. of $26.0 - 28.0$ °C and minimum temp. of $13.0 - 16.0$ °C. RH may reach a maximum value of 100 % (maximum RH) & 92 % (minimum RH). The average wind speed may be 0-4 km/hr during next five days.

Main Weather Observations

Low/medium clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 01st November, 2013) Rain/thundershowers would occur at isolated places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	L L		
	Maturity to		- Drain out excess water 10 days before harvesting.
Rice	harvesting		- Harvest when 75-80 % of the spikelets are yellow.
			- Panicles may be stacked for 5-7 days. Turn the heap of panicles
			regularly for better threshing.
			- After proper threshing, grains must be sundried well before storage. Dry
			grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/	Sowing		- After harvesting rice zero tillage rape seed may be sown (seed rate is 10-
Mustard			12 kg/ ha) when soil in the field is slightly soft.
			- Apply recommended dose of NPK before sowing.
			- Recommended variety – M-27.
Field Pea	Land preparation		- Land preparation may be done. Sowing may be done at a spacing of
	to sowing		30cm x 10-15cm.
			- Recommended variety - Rachana. Seed rate is 75 kg/ ha.
Blackgram /	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Rice bean			- Monitor for insect/ pest infestation on the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth.
Horticulture Cro			
		ains only when field c	
Potato	Land preparation		- Soil may be prepared to fine tilt for planting potatoes.
	and seed/ tuber		- Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
	treatment and		25-30 quintals/ hectare.
	planting		- Collect seed tubers from reliable source and treated it with Sixer
			(Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes and dry in
			shed before planting as preventive measure against soil borne diseases.
			- Sowing may be done at a spacing of 60cm x 15-20cm.





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Onion	Nursery		 Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Seed rate: ½ kg seeds for 25 m² area. Check that new sprouts are not damaged.
	Transplanting		- 45-60 days old seedlings may be transplanted.
Vegetable nursery (Cole Crops/ Tomato)	Nursery		 Prepare raised nursery bed (of 18-20 cm height) for cole crops & tomato. To avoid soil borne diseases, nursery bed must be dried properly. Incorporate Captan 50 WP or Carbendazim before sowing.
Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		 Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and tomato. Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Animal Science	es	1	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
	age groups	Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Ranikhet	 F1 strains live vaccine @ 1 drop on eye or nostril. Lasota strain vaccine at the age of 7 days (Nasal drop). R₂B vaccine at the age of 45-60 days.
		Management	 Cover the wall with hessian cloth/ polysheet during night time. Brooding house must be kept warm and avoid wet litter material. Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
•	of age	Ectoparasite	Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
8	of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	 Deworm using Albendazole @1ml/3kgbody weight orally once only.
	Piglets (above 10	Deworning	 Piglets more than 10 days may be given small quantity of creep feed @
	days old)		100-200 g/day.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
	C C	FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting	Ŭ	- Fishes may be harvested in paddy cum fish culture practice.
Cat fish (Ngakra)	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 29th October, 2013

Chandel

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Imphal - West (25 th to 28 th October, 2013)	to 3 rd November, 2013)
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Main Weather Observations

Low/medium clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 01st November, 2013) Rain/thundershowers would occur at isolated places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
	Maturity to		- Drain out excess water 10 days before harvesting.
Rice	harvesting		- Harvest when 75-80 % of the spikelets are yellow.
			- Panicles may be stacked for 5-7 days. Turn the heap of panicles
			regularly for better threshing.
			- After proper threshing, grains must be sundried well before storage. Dry
			grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/	Sowing		- After harvesting rice zero tillage rape seed may be sown (seed rate is 10-
Mustard			12 kg/ ha) when soil in the field is slightly soft.
			- Apply recommended dose of NPK before sowing.
			- Recommended variety – M-27.
Field Pea	Land preparation		- Land preparation may be done. Sowing may be done at a spacing of
	to sowing		30cm x 10-15cm.
			- Recommended variety - Rachana. Seed rate is 75 kg/ ha.
Blackgram /	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Rice bean			- Monitor for insect/ pest infestation on the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth.
Horticulture Cro			
Land preparation		ains only when field c	1
Potato	Land preparation		- Soil may be prepared to fine tilt for planting potatoes.
	and seed/ tuber		- Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
	treatment and		25-30 quintals/ hectare.
	planting		- Collect seed tubers from reliable source and treated it with Sixer
			(Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes and dry in
			shed before planting as preventive measure against soil borne diseases.
			- Sowing may be done at a spacing of 60cm x 15-20cm.



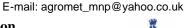


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Onion	Nursery		 Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Seed rate: ½ kg seeds for 25 m² area. Check that new sprouts are not damaged.
	Transplanting		- 45-60 days old seedlings may be transplanted.
Vegetable nursery (Cole Crops/ Tomato)	Nursery		 Prepare raised nursery bed (of 18-20 cm height) for cole crops & tomato. To avoid soil borne diseases, nursery bed must be dried properly. Incorporate Captan 50 WP or Carbendazim before sowing.
Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		 Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and tomato. Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Endoparasite Ectoparasite	 - Administer Albend @ 30 ml/100 birds in drinking water. - Spray Butox @ 2ml in 1 lit of water, twice a week.
age groups	-9- 9F	Ranikhet	 F1 strains live vaccine @ 1 drop on eye or nostril. Lasota strain vaccine at the age of 7 days (Nasal drop). R₂B vaccine at the age of 45-60 days.
		Management	 Cover the wall with hessian cloth/ polysheet during night time. Brooding house must be kept warm and avoid wet litter material. Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months of age	Deworming Ectoparasite	 - Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
8	of age	Coccidiosis	Administer Piperazine liquid @ 10ml orally per adult once only.
	-	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	 Deworm using Albendazole @1ml/3kgbody weight orally once only.
	Piglets (above 10 days old)	Deworning	 Piglets more than 10 days may be given small quantity of creep feed @ 100-200 g/day.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	 Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	 Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- Fishes may be harvested in paddy cum fish culture practice.
Cat fish (Ngakra)	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 29th October, 2013

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 30th October to 3rd November, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur (30 th
Imphal - West (25 th to 28 th October, 2013)	October to 3 rd November, 2013)
During the past four days the sky was cloudy but partly cloudy during afternoon hours of 28 Oct. 22.2 mm rainfall	There may be no rain upto Sunday. The sky may be clear to partly cloudy with maximum temp. of 25.0 - 28.0 °C and
was recorded during past four days. Maximum temperature range observed was $21.2 - 27.8$ °C, range of minimum temperature observed was $15.5 - 17.2$ °C, mean relative	minimum temp. of 14.0 $-$ 16.0 °C. RH may reach a maximum value of 100 % (maximum RH) & 95 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.
humidity observed in morning and afternoon were 93.5 % and 77.0 % respectively. The average wind speed range was	
0.2 – 3.2 km/hr.	

Main Weather Observations

Low/medium clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 01st November, 2013) Rain/thundershowers would occur at isolated places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	· · · ·		
	Maturity to		- Drain out excess water 10 days before harvesting.
Rice	harvesting		- Harvest when 75-80 % of the spikelets are yellow.
			- Panicles may be stacked for 5-7 days. Turn the heap of panicles
			regularly for better threshing.
			- After proper threshing, grains must be sundried well before storage. Dry
			grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/	Sowing		- After harvesting rice zero tillage rape seed may be sown (seed rate is 10-
Mustard			12 kg/ ha) when soil in the field is slightly soft.
			- Apply recommended dose of NPK before sowing.
	T 1		- Recommended variety – M-27.
Field Pea	Land preparation		- Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm.
	to sowing		
	D. 1 Commenting		- Recommended variety - Rachana. Seed rate is 75 kg/ ha.
Blackgram / Rice bean	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
			- Monitor for insect/ pest infestation on the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	4		
Land preparation		ains only when field c	
Potato	Land preparation		- Soil may be prepared to fine tilt for planting potatoes.
	and seed/ tuber		- Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
	treatment and		25-30 quintals/ hectare.
	planting		- Collect seed tubers from reliable source and treated it with Sixer
			(Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes and dry in
			shed before planting as preventive measure against soil borne diseases.
			- Sowing may be done at a spacing of 60cm x 15-20cm.



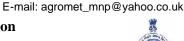


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Onion	Nursery		 Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Seed rate: ½ kg seeds for 25 m² area. Check that new sprouts are not damaged.
	Transplanting		- 45-60 days old seedlings may be transplanted.
Vegetable nursery (Cole Crops/ Tomato)	Nursery		 Prepare raised nursery bed (of 18-20 cm height) for cole crops & tomato. To avoid soil borne diseases, nursery bed must be dried properly. Incorporate Captan 50 WP or Carbendazim before sowing.
Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		 Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and tomato. Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Animal Science	es	1	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
	age groups	Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Ranikhet	 F1 strains live vaccine @ 1 drop on eye or nostril. Lasota strain vaccine at the age of 7 days (Nasal drop). R₂B vaccine at the age of 45-60 days.
		Management	 Cover the wall with hessian cloth/ polysheet during night time. Brooding house must be kept warm and avoid wet litter material. Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
•	of age	Ectoparasite	Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
8	of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @1ml/3kgbody weight orally once only.
	Piglets (above 10	Dewonning	 Piglets more than 10 days may be given small quantity of creep feed @
	days old)		100-200 g/day.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries	•		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- Fishes may be harvested in paddy cum fish culture practice.
Cat fish (Ngakra)	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 29th October, 2013

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 30th October to 3rd November, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - East (30 th
Imphal - West (25 th to 28 th October, 2013)	October to 3 rd November, 2013)
During the past four days the sky was cloudy but partly cloudy during afternoon hours of 28 Oct. 22.2 mm rainfall was recorded during past four days. Maximum temperature range observed was $21.2 - 27.8$ °C, range of minimum temperature observed was $15.5 - 17.2$ °C, mean relative humidity observed in morning and afternoon were 93.5 % and 77.0 % respectively. The average wind speed range was $0.2 - 3.2$ km/hr.	There may be no rain upto Sunday. The sky may be clear to partly cloudy with maximum temp. of $26.0 - 28.0$ °C and minimum temp. of $14.0 - 16.0$ °C. RH may reach a maximum value of 100 % (maximum RH) & 88 % (minimum RH). The average wind speed may be 0-4 km/hr during next five days.

Main Weather Observations

Low/medium clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 01st November, 2013) Rain/thundershowers would occur at isolated places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	L L		
	Maturity to		- Drain out excess water 10 days before harvesting.
Rice	harvesting		- Harvest when 75-80 % of the spikelets are yellow.
			- Panicles may be stacked for 5-7 days. Turn the heap of panicles
			regularly for better threshing.
			- After proper threshing, grains must be sundried well before storage. Dry
			grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/	Sowing		- After harvesting rice zero tillage rape seed may be sown (seed rate is 10-
Mustard			12 kg/ ha) when soil in the field is slightly soft.
			- Apply recommended dose of NPK before sowing.
			- Recommended variety – M-27.
Field Pea	Land preparation		- Land preparation may be done. Sowing may be done at a spacing of
	to sowing		30cm x 10-15cm.
			- Recommended variety - Rachana. Seed rate is 75 kg/ ha.
Blackgram /	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Rice bean			- Monitor for insect/ pest infestation on the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth.
Horticulture Cro			
* *		ains only when field c	
Potato	Land preparation		- Soil may be prepared to fine tilt for planting potatoes.
	and seed/ tuber		- Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
	treatment and		25-30 quintals/ hectare.
	planting		- Collect seed tubers from reliable source and treated it with Sixer
			(Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes and dry in
			shed before planting as preventive measure against soil borne diseases.
			- Sowing may be done at a spacing of 60cm x 15-20cm.



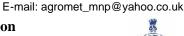


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Onion	Nursery		 Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Seed rate: ½ kg seeds for 25 m² area. Check that new sprouts are not damaged.
	Transplanting		- 45-60 days old seedlings may be transplanted.
Vegetable nursery (Cole Crops/ Tomato)	Nursery		 Prepare raised nursery bed (of 18-20 cm height) for cole crops & tomato. To avoid soil borne diseases, nursery bed must be dried properly. Incorporate Captan 50 WP or Carbendazim before sowing.
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Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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	age groups	Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Ranikhet	 F1 strains live vaccine @ 1 drop on eye or nostril. Lasota strain vaccine at the age of 7 days (Nasal drop). R₂B vaccine at the age of 45-60 days.
		Management	 Cover the wall with hessian cloth/ polysheet during night time. Brooding house must be kept warm and avoid wet litter material. Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
•	of age	Ectoparasite	Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
8	of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	 Deworm using Albendazole @1ml/3kgbody weight orally once only.
	Piglets (above 10	Deworning	 Piglets more than 10 days may be given small quantity of creep feed @
	days old)		100-200 g/day.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
	C C	FMD	- Vaccinate against FMD.
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Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- Fishes may be harvested in paddy cum fish culture practice.
Cat fish (Ngakra)	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.



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MANIPUR BULLETIN 29th October, 2013

Imphal-West

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Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - West (30 th
Imphal - West (25 th to 28 th October, 2013)	October to 3 rd November, 2013)
During the past four days the sky was cloudy but partly cloudy during afternoon hours of 28 Oct. 22.2 mm rainfall was recorded during past four days. Maximum temperature range observed was $21.2 - 27.8$ °C, range of minimum temperature observed was $15.5 - 17.2$ °C, mean relative humidity observed in morning and afternoon were 93.5 % and 77.0 % respectively. The average wind speed range was $0.2 - 3.2$ km/hr.	There may be no rain upto Sunday. The sky may be clear to partly cloudy with maximum temp. of $26.0 - 28.0$ °C and minimum temp. of $14.0 - 16.0$ °C. RH may reach a maximum value of 100 % (maximum RH) & 94 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Main Weather Observations

Low/medium clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 01st November, 2013) Rain/thundershowers would occur at isolated places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	L L		
	Maturity to		- Drain out excess water 10 days before harvesting.
Rice	harvesting		- Harvest when 75-80 % of the spikelets are yellow.
			- Panicles may be stacked for 5-7 days. Turn the heap of panicles
			regularly for better threshing.
			- After proper threshing, grains must be sundried well before storage. Dry
			grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/	Sowing		- After harvesting rice zero tillage rape seed may be sown (seed rate is 10-
Mustard			12 kg/ ha) when soil in the field is slightly soft.
			- Apply recommended dose of NPK before sowing.
			- Recommended variety – M-27.
Field Pea	Land preparation		- Land preparation may be done. Sowing may be done at a spacing of
	to sowing		30cm x 10-15cm.
			- Recommended variety - Rachana. Seed rate is 75 kg/ ha.
Blackgram /	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Rice bean			- Monitor for insect/ pest infestation on the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth.
Horticulture Cro			
Land preparation	may be carried after r	ains only when field co	onditions permits.
Potato	Land preparation		- Soil may be prepared to fine tilt for planting potatoes.
	and seed/ tuber		- Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
	treatment and		25-30 quintals/ hectare.
	planting		- Collect seed tubers from reliable source and treated it with Sixer
			(Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes and dry in
			shed before planting as preventive measure against soil borne diseases.
			- Sowing may be done at a spacing of 60cm x 15-20cm.





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Onion	Nursery		 Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Seed rate: ½ kg seeds for 25 m² area. Check that new sprouts are not damaged.
	Transplanting		- 45-60 days old seedlings may be transplanted.
Vegetable nursery (Cole Crops/ Tomato)	Nursery		 Prepare raised nursery bed (of 18-20 cm height) for cole crops & tomato. To avoid soil borne diseases, nursery bed must be dried properly. Incorporate Captan 50 WP or Carbendazim before sowing.
Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		 Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and tomato. Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
	age groups	Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Ranikhet	 F1 strains live vaccine @ 1 drop on eye or nostril. Lasota strain vaccine at the age of 7 days (Nasal drop). R₂B vaccine at the age of 45-60 days.
		Management	 Cover the wall with hessian cloth/ polysheet during night time. Brooding house must be kept warm and avoid wet litter material. Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
•	of age	Ectoparasite	Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
8	of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	 Deworm using Albendazole @1ml/3kgbody weight orally once only.
	Piglets (above 10	Deworning	 Piglets more than 10 days may be given small quantity of creep feed @
	days old)		100-200 g/day.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
	C C	FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- Fishes may be harvested in paddy cum fish culture practice.
Cat fish (Ngakra)	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

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



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 29th October, 2013

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 30th October to 3rd November, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati (30 th October
Imphal - West (25 th to 28 th October, 2013)	to 3 rd November, 2013)
During the past four days the sky was cloudy but partly cloudy during afternoon hours of 28 Oct. 22.2 mm rainfall was recorded during past four days. Maximum temperature range observed was $21.2 - 27.8$ °C, range of minimum temperature observed was $15.5 - 17.2$ °C, mean relative humidity observed in morning and afternoon were 93.5 % and 77.0 % respectively. The average wind speed range was $0.2 - 3.2$ km/hr.	There may be no rain upto Sunday. The sky may be clear to partly cloudy with maximum temp. of $24.0 - 27.0$ °C and minimum temp. of $12.0 - 15.0$ °C. RH may reach a maximum value of 100 % (maximum RH) & 95 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Main Weather Observations

Low/medium clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 01st November, 2013) Rain/thundershowers would occur at isolated places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
	Maturity to		- Drain out excess water 10 days before harvesting.
Rice	harvesting		- Harvest when 75-80 % of the spikelets are yellow.
			- Panicles may be stacked for 5-7 days. Turn the heap of panicles
			regularly for better threshing.
			- After proper threshing, grains must be sundried well before storage. Dry
			grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/	Sowing		- After harvesting rice zero tillage rape seed may be sown (seed rate is 10-
Mustard			12 kg/ ha) when soil in the field is slightly soft.
			- Apply recommended dose of NPK before sowing.
			- Recommended variety – M-27.
Field Pea	Land preparation		- Land preparation may be done. Sowing may be done at a spacing of
	to sowing		30cm x 10-15cm.
			- Recommended variety - Rachana. Seed rate is 75 kg/ ha.
Blackgram /	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Rice bean			- Monitor for insect/ pest infestation on the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
_			germination of seeds or fungal growth.
Horticulture Cro	ps		
Land preparation	may be carried after	rains only when field co	onditions permits.
Onion	Nursery		- Apply Captan 50 WP after final land preparation as preventive measures
	-		against soil borne diseases. Seed rate: $\frac{1}{2}$ kg seeds for 25 m ² area.
			- Check that new sprouts are not damaged.
	Transplanting		- 45-60 days old seedlings may be transplanted.
Vegetable	Nursery		- Prepare raised nursery bed (of 18-20 cm height) for cole crops & tomato.
nursery (Cole	Ĭ		- To avoid soil borne diseases, nursery bed must be dried properly.
Crops/ Tomato)			- Incorporate Captan 50 WP or Carbendazim before sowing.



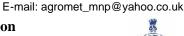


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Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		 Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and
F (1)			tomato. - Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
	age groups	Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Ranikhet	 F1 strains live vaccine @ 1 drop on eye or nostril. Lasota strain vaccine at the age of 7 days (Nasal drop). R₂B vaccine at the age of 45-60 days.
		Management	 Cover the wall with hessian cloth/ polysheet during night time. Brooding house must be kept warm and avoid wet litter material. Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
	of age	Ectoparasite	Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @1ml/3kgbody weight orally once only.
	Piglets (above 10 days old)		- Piglets more than 10 days may be given small quantity of creep feed @ 100-200 g/day.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- Fishes may be harvested in paddy cum fish culture practice.
Cat fish (Ngakra)	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.



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





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 29th October, 2013

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 30th October to 3rd November, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong (30 th
Imphal - West (25 th to 28 th October, 2013)	October to 3 rd November, 2013)
During the past four days the sky was cloudy but partly	There may be no rain upto Sunday. The sky may be clear to
cloudy during afternoon hours of 28 Oct. 22.2 mm rainfall	partly cloudy with maximum temp. of 28.0 - 30.0 °C and
was recorded during past four days. Maximum temperature	minimum temp. of $15.0 - 18.0$ °C. RH may reach a maximum
range observed was $21.2 - 27.8$ °C, range of minimum	value of 100 % (maximum RH) & 91 % (minimum RH). The
temperature observed was 15.5 – 17.2 °C, mean relative humidity observed in morning and afternoon were 93.5 %	average wind speed may be 2-4 km/hr during next five days.
and 77.0 % respectively. The average wind speed range was	
0.2 - 3.2 km/hr.	

Main Weather Observations

Low/medium clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 01st November, 2013) Rain/thundershowers would occur at isolated places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	L L		
	Maturity to		- Drain out excess water 10 days before harvesting.
Rice	harvesting		- Harvest when 75-80 % of the spikelets are yellow.
			- Panicles may be stacked for 5-7 days. Turn the heap of panicles
			regularly for better threshing.
			- After proper threshing, grains must be sundried well before storage. Dry
			grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/	Sowing		- After harvesting rice zero tillage rape seed may be sown (seed rate is 10-
Mustard			12 kg/ ha) when soil in the field is slightly soft.
			- Apply recommended dose of NPK before sowing.
			- Recommended variety – M-27.
Field Pea	Land preparation		- Land preparation may be done. Sowing may be done at a spacing of
	to sowing		30cm x 10-15cm.
			- Recommended variety - Rachana. Seed rate is 75 kg/ ha.
Blackgram /	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Rice bean			- Monitor for insect/ pest infestation on the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth.
Horticulture Cro			
* *		ains only when field c	
Potato	Land preparation		- Soil may be prepared to fine tilt for planting potatoes.
	and seed/ tuber		- Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
	treatment and		25-30 quintals/ hectare.
	planting		- Collect seed tubers from reliable source and treated it with Sixer
			(Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes and dry in
			shed before planting as preventive measure against soil borne diseases.
			- Sowing may be done at a spacing of 60cm x 15-20cm.





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Onion	Nursery		 Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Seed rate: ½ kg seeds for 25 m² area. Check that new sprouts are not damaged.
	Transplanting		- 45-60 days old seedlings may be transplanted.
Vegetable nursery (Cole Crops/ Tomato)	Nursery		 Prepare raised nursery bed (of 18-20 cm height) for cole crops & tomato. To avoid soil borne diseases, nursery bed must be dried properly. Incorporate Captan 50 WP or Carbendazim before sowing.
Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		 Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and tomato. Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Animal Science	es	1	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
	age groups	Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Ranikhet	 F1 strains live vaccine @ 1 drop on eye or nostril. Lasota strain vaccine at the age of 7 days (Nasal drop). R₂B vaccine at the age of 45-60 days.
		Management	 Cover the wall with hessian cloth/ polysheet during night time. Brooding house must be kept warm and avoid wet litter material. Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
•	of age	Ectoparasite	Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
8	of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @1ml/3kgbody weight orally once only.
	Piglets (above 10	Dewonning	 Piglets more than 10 days may be given small quantity of creep feed @
	days old)		100-200 g/day.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
	C	FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- Fishes may be harvested in paddy cum fish culture practice.
Cat fish (Ngakra)	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 29th October, 2013

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 30th October to 3rd November, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal (30 th October
Imphal - West (25 th to 28 th October, 2013)	to 3 rd November, 2013)
During the past four days the sky was cloudy but partly cloudy during afternoon hours of 28 Oct. 22.2 mm rainfall was recorded during past four days. Maximum temperature range observed was $21.2 - 27.8$ °C, range of minimum temperature observed was $15.5 - 17.2$ °C, mean relative humidity observed in morning and afternoon were 93.5 % and 77.0 % respectively. The average wind speed range was $0.2 - 3.2$ km/hr.	There may be no rain upto Sunday. The sky may be clear to partly cloudy with maximum temp. of $27.0 - 29.0$ °C and minimum temp. of $14.0 - 16.0$ °C. RH may reach a maximum value of 100 % (maximum RH) & 90 % (minimum RH). The average wind speed may be 0-4 km/hr during next five days.

Main Weather Observations

Low/medium clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 01st November, 2013) Rain/thundershowers would occur at isolated places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
	Maturity to		- Drain out excess water 10 days before harvesting.
Rice	harvesting		- Harvest when 75-80 % of the spikelets are yellow.
			- Panicles may be stacked for 5-7 days. Turn the heap of panicles
			regularly for better threshing.
			- After proper threshing, grains must be sundried well before storage. Dry
			grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/	Sowing		- After harvesting rice zero tillage rape seed may be sown (seed rate is 10-
Mustard			12 kg/ ha) when soil in the field is slightly soft.
			- Apply recommended dose of NPK before sowing.
			- Recommended variety – M-27.
Field Pea	Land preparation		- Land preparation may be done. Sowing may be done at a spacing of
	to sowing		30cm x 10-15cm.
			- Recommended variety - Rachana. Seed rate is 75 kg/ ha.
Blackgram /	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Rice bean			- Monitor for insect/ pest infestation on the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth.
Horticulture Cro			
* *		ains only when field c	
Potato	Land preparation		- Soil may be prepared to fine tilt for planting potatoes.
	and seed/ tuber		- Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
	treatment and		25-30 quintals/ hectare.
	planting		- Collect seed tubers from reliable source and treated it with Sixer
			(Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes and dry in
			shed before planting as preventive measure against soil borne diseases.
			- Sowing may be done at a spacing of 60cm x 15-20cm.





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Onion	Nursery		 Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Seed rate: ½ kg seeds for 25 m² area. Check that new sprouts are not damaged.
	Transplanting		- 45-60 days old seedlings may be transplanted.
Vegetable nursery (Cole Crops/ Tomato)	Nursery		 Prepare raised nursery bed (of 18-20 cm height) for cole crops & tomato. To avoid soil borne diseases, nursery bed must be dried properly. Incorporate Captan 50 WP or Carbendazim before sowing.
Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		 Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and tomato. Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Endoparasite Ectoparasite	 - Administer Albend @ 30 ml/100 birds in drinking water. - Spray Butox @ 2ml in 1 lit of water, twice a week.
	-9- 9F	Ranikhet	 F1 strains live vaccine @ 1 drop on eye or nostril. Lasota strain vaccine at the age of 7 days (Nasal drop). R₂B vaccine at the age of 45-60 days.
		Management	 Cover the wall with hessian cloth/ polysheet during night time. Brooding house must be kept warm and avoid wet litter material. Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months of age	Deworming Ectoparasite	 - Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
8	of age	Coccidiosis	Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	 Deworm using Albendazole @1ml/3kgbody weight orally once only.
	Piglets (above 10 days old)	Deworning	 Piglets more than 10 days may be given small quantity of creep feed @ 100-200 g/day.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	 Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	 Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- Fishes may be harvested in paddy cum fish culture practice.
Cat fish (Ngakra)	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

High Shell

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 29th October, 2013

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 30th October to 3rd November, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul $(30^{\text{th}} \text{ October to})$
Imphal - West (25 th to 28 th October, 2013)	<u>3rd November, 2013</u>
During the past four days the sky was cloudy but partly cloudy during afternoon hours of 28 Oct. 22.2 mm rainfall was recorded during past four days. Maximum temperature range observed was $21.2 - 27.8$ °C, range of minimum temperature observed was $15.5 - 17.2$ °C, mean relative humidity observed in morning and afternoon were 93.5 % and 77.0 % respectively. The average wind speed range was $0.2 - 3.2$ km/hr.	There may be no rain upto Sunday. The sky may be clear to partly cloudy with maximum temp. of $23.0 - 26.0$ °C and minimum temp. of $10.0 - 13.0$ °C. RH may reach a maximum value of 100 % (maximum RH) & 90 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Main Weather Observations

Low/medium clouds are seen over Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 01st November, 2013) Rain/thundershowers would occur at isolated places over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
	Maturity to		- Drain out excess water 10 days before harvesting.
Rice	harvesting		- Harvest when 75-80 % of the spikelets are yellow.
			- Panicles may be stacked for 5-7 days. Turn the heap of panicles
			regularly for better threshing.
			- After proper threshing, grains must be sundried well before storage. Dry
			grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/	Sowing		- After harvesting rice zero tillage rape seed may be sown (seed rate is 10-
Mustard			12 kg/ ha) when soil in the field is slightly soft.
			- Apply recommended dose of NPK before sowing.
			- Recommended variety – M-27.
Field Pea	Land preparation		- Land preparation may be done. Sowing may be done at a spacing of
	to sowing		30cm x 10-15cm.
			- Recommended variety - Rachana. Seed rate is 75 kg/ ha.
Blackgram /	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Rice bean			- Monitor for insect/ pest infestation on the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth.
Horticulture Cro			
Land preparation	may be carried after	rains only when field c	
Onion	Nursery		- Apply Captan 50 WP after final land preparation as preventive measures
			against soil borne diseases. Seed rate: ¹ / ₂ kg seeds for 25 m ² area.
			- Check that new sprouts are not damaged.
	Transplanting		- 45-60 days old seedlings may be transplanted.
Vegetable	Nursery		- Prepare raised nursery bed (of 18-20 cm height) for cole crops & tomato.
nursery (Cole	-		- To avoid soil borne diseases, nursery bed must be dried properly.
Crops/ Tomato)			- Incorporate Captan 50 WP or Carbendazim before sowing.





"Integrated Agromet Advisory Services"

Vegetable	Land preparation		- Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final
nursery (Cole Crops/ Tomato/ Garden pea, etc.)	for direct sowing/ transplanting		 land preparation (about 4-5 days ahead of sowing/ transplanting). Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and tomato.
			- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
	age groups	Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Ranikhet	 F1 strains live vaccine @ 1 drop on eye or nostril. Lasota strain vaccine at the age of 7 days (Nasal drop). R₂B vaccine at the age of 45-60 days.
		Management	 Cover the wall with hessian cloth/ polysheet during night time. Brooding house must be kept warm and avoid wet litter material. Preventive dose of an antibiotic is suggested.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
		Ectoparasite	Spray Butox @ 2ml in 1 lit of water.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
8		Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @1ml/3kgbody weight orally once only.
	Piglets (above 10 days old)		- Piglets more than 10 days may be given small quantity of creep feed @ 100-200 g/day.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- Fishes may be harvested in paddy cum fish culture practice.
Cat fish (Ngakra)	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.