

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 5th November, 2013

Imphal-West

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 6th to 10th November, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal

- West (1st to 4th November, 2013)

During the past four days the sky was mainly clear but partly cloudy to mainly cloudy during morning hours of $1^{\rm st}$ & $2^{\rm nd}$ Nov and foggy during morning hours of $4^{\rm th}$ Oct. No rainfall was recorded during past four days. Maximum temperature range observed was 26.4-27.9 °C, range of minimum temperature observed was 10.7-12.0 °C, mean relative humidity observed in morning and afternoon were 92 % and 59 % respectively. The average wind speed range was $0.4-1.0~\rm km/hr.$

Weather forecast for next five days of Imphal - West (6th to 10th November, 2013)

There may be no rain upto Sunday. Weather would mainly dry over Manipur with clear to mainly clear sky and maximum temp. of 26.0 - 28.0 °C & minimum temp. of 9.0 - 11.0 °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 40 % (minimum RH). The average wind speed may be 4 - 5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		J.
	Harvest to post-		- Harvest when 80 % of the spikelet turned yellow.
Rice	harvest		- Harvested panicles may be stacked for 5-7 days and turned 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 of rice, zero tillage rape seed may be sown (seed rate is
Mustard			10-12 kg/ha) when soil in the field is soft at 30 cm row spacing.
			- Recommended variety – M-27.
			- After 10-15 days of sowing plant to plant distance may be maintained at
			10-15cm by thinning.
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. Treat the seeds
			with Bavistin @ 2.5 mg/ lit of water before sowing.
Blackgram /	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Rice bean			
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth.

- * Light watering during morning hours is advised.
- * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.

as to mainta	in the soil temperature.	
Potato	Land preparation	- Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri
	and seed/tuber	Chipsona. Seed rate is 25-30 quintals/ hectare.
	treatment and	- Collect seed tubers from reliable source and treated it with Sixer
	planting	(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.
		- Strict instructions may be followed for seed purpose.
Onion	Nursery	- Apply Captan 50 WP after final land preparation as preventive measures
		against soil borne diseases. Seed rate: ½ kg seeds for 25 m ² area.
		- Check that new sprouts are not damaged.
		- Use short duration variety (110-120 days crop) so that it may be
		harvested before rains.



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Vegetable	Land preparation		- Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final
nursery (Cole	for direct sowing/		land preparation (about 4-5 days ahead of sowing/ transplanting).
Crops/ Tomato, etc.)	transplanting		- Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and
Candan nas			tomato.
Garden pea			- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Mango			As the winter is approaching, pruning of dead twigs and branches is very essential followed by manuring and mulching. For bearing trees, about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP respectively also 8 kg FYM should be applied. For irrigation, community based water harvesting pond or water shed is recommended.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Coccidiosis	- Supercox/ Coccidiostats should be given in feed and drinking water as
	age groups		preventive doses.
			- Administer Amprolium Powder @ 1g/ litre of drinking water for 5-7 days.
		Management	- Cover the wall with hessian cloth/ polysheet during night time.
			- Brooding house must be kept warm.
			- Litter material must be kept dry. The moisture content should not exceed
			30%. Formation of cakes/ balls of litter indicate excess moisture.
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 for protection against mange and mites.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @1ml/3kg body weight orally once only.
Cattle / Buffalo/	Above 3 months	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age	FMD	- Vaccinate against FMD.
		Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		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	- Lime/ Aqua magic should be applied regularly to keep good quality pond
•			water. Water depth should be maintained at 1.0-1.5m.
			- Replace half of pond water with fresh & clean water at every 25-30 days
			interval.
			- Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Harvest	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 5th November, 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 6th to 10th November, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th November, 2013)

During the past four days the sky was mainly clear but partly

During the past four days the sky was mainly clear but partly cloudy to mainly cloudy during morning hours of $1^{\rm st}$ & $2^{\rm nd}$ Nov and foggy during morning hours of $4^{\rm th}$ Oct. **No** rainfall was recorded during past four days. Maximum temperature range observed was 26.4-27.9 °C, range of minimum temperature observed was 10.7-12.0 °C, mean relative humidity observed in morning and afternoon were 92 % and 59 % respectively. The average wind speed range was 0.4-1.0 km/hr.

Weather forecast for next five days of Senapati (6th to 10th November, 2013)

There may be no rain upto Sunday. Weather would mainly dry over Manipur with clear to mainly clear sky and maximum temp. of 24.0 - 26.0 °C & minimum temp. of 6.0 - 8.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 39 % (minimum RH). The average wind speed may be 4-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
	Harvest to post-		- Harvest when 80 % of the spikelet turned yellow.
Rice	harvest		- Harvested panicles may be stacked for 5-7 days and turned 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/ Mustard	Sowing		- After harvesting of rice, zero tillage rape seed may be sown (seed rate is 10-12 kg/ha) when soil in the field is soft at 30 cm row spacing Recommended variety – M-27.
			- After 10-15 days of sowing plant to plant distance may be maintained at 10-15cm by thinning.
Field Pea	Land preparation to sowing		- Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm.
			- Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Blackgram / Rice bean	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.

- * Light watering during morning hours is advised.
- * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.

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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.			
		- Use short duration variety (110-120 days crop) so that it may be			
		harvested before rains.			
Vegetable	Land preparation	- Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final			
nursery (Cole	for direct sowing/	land preparation (about 4-5 days ahead of sowing/ transplanting).			
Crops/ Tomato,	transplanting	- Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and			
etc.)		tomato.			
Garden pea		- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5			
_		mg/lit of water before sowing			



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Mango			As the winter is approaching, pruning of dead twigs and branches is very essential followed by manuring and mulching. For bearing trees, about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP respectively also 8 kg FYM should be applied. For irrigation, community based water harvesting pond or water shed is recommended.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Coccidiosis	 - Supercox/ Coccidiostats should be given in feed and drinking water as preventive doses. - Administer Amprolium Powder @ 1g/ litre of drinking water for 5-7 days.
		Management	 Cover the wall with hessian cloth/ polysheet during night time. Brooding house must be kept warm. Litter material must be kept dry. The moisture content should not exceed 30%. Formation of cakes/ balls of litter indicate excess moisture.
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 for protection against mange and mites.
Pig	Above 3 months	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
	of age	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @1ml/3kg body weight orally once only.
Cattle / Buffalo/	Above 3 months of age	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun		FMD	- Vaccinate against FMD.
		Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries		1	-
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	 - Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. - Replace half of pond water with fresh & clean water at every 25-30 days interval. - Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Harvest	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.

I. Meghachandra Singh Scientist i/c, IAAS



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Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 6th to 10th November, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th November, 2013)

During the past four days the sky was mainly clear but partly cloudy to mainly cloudy during morning hours of 1st & 2nd Nov and foggy during morning hours of 4th Oct. No rainfall was recorded during past four days. Maximum temperature range observed was 26.4 - 27.9 °C, range of minimum temperature observed was 10.7 - 12.0 °C, mean relative humidity observed in morning and afternoon were 92 % and 59 % respectively. The average wind speed range was 0.4 -1.0 km/hr.

Weather forecast for next five days of Tamenglong (6th to 10th November, 2013)

There may be no rain upto Sunday. Weather would mainly dry over Manipur with clear to mainly clear sky and maximum temp. of 26.0 - 27.0 °C & minimum temp. of 8.0 - 10.0 °C. Relative Humidity may reach a maximum value of 98 % (maximum RH) & 41 % (minimum RH). The average wind speed may be 4-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
	Harvest to post-		- Harvest when 80 % of the spikelet turned yellow.
Rice	harvest		- Harvested panicles may be stacked for 5-7 days and turned 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 of rice, zero tillage rape seed may be sown (seed rate is
Mustard			10-12 kg/ ha) when soil in the field is soft at 30 cm row spacing.
			- Recommended variety – M-27.
			- After 10-15 days of sowing plant to plant distance may be maintained at
			10-15cm by thinning.
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. Treat the seeds
			with Bavistin @ 2.5 mg/ lit of water before sowing.
Blackgram /	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Rice bean			
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
_			germination of seeds or fungal growth.

- * Light watering during morning hours is advised.
- * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well

as to mainta	in the soil temperature.	
Potato	Land preparation	- Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri
	and seed/tuber	Chipsona. Seed rate is 25-30 quintals/ hectare.
	treatment and	- Collect seed tubers from reliable source and treated it with Sixer
	planting	(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.
		- Strict instructions may be followed for seed purpose.
Onion	Nursery	- Apply Captan 50 WP after final land preparation as preventive measures
		against soil borne diseases. Seed rate: ½ kg seeds for 25 m ² area.
		- Check that new sprouts are not damaged.
		- Use short duration variety (110-120 days crop) so that it may be
		harvested before rains.



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Vegetable nursery (Cole Crops/ Tomato, 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.
Garden pea			- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/lit of water before sowing.
Mango			As the winter is approaching, pruning of dead twigs and branches is very essential followed by manuring and mulching. For bearing trees, about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP respectively also 8 kg FYM should be applied. For irrigation, community based water harvesting pond or water shed is recommended.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Coccidiosis	 Supercox/ Coccidiostats should be given in feed and drinking water as preventive doses. Administer Amprolium Powder @ 1g/ litre of drinking water for 5-7 days.
		Management	 Cover the wall with hessian cloth/ polysheet during night time. Brooding house must be kept warm. Litter material must be kept dry. The moisture content should not exceed 30%. Formation of cakes/ balls of litter indicate excess moisture.
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 for protection against mange and mites.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @1ml/3kg body weight orally once only.
Cattle / Buffalo/	Above 3 months	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age	FMD	- Vaccinate against FMD.
		Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries	1		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	 Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. Replace half of pond water with fresh & clean water at every 25-30 days interval.
			- Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Harvest	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.



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Thoubal

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Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th November, 2013) During the past four days the sky was mainly clear but partly

cloudy to mainly cloudy during morning hours of 1st & 2nd Nov and foggy during morning hours of 4th Oct. No rainfall was recorded during past four days. Maximum temperature range observed was 26.4 - 27.9 °C, range of minimum temperature observed was 10.7 - 12.0 °C, mean relative humidity observed in morning and afternoon were 92 % and 59 % respectively. The average wind speed range was 0.4 -1.0 km/hr.

Weather forecast for next five days of Thoubal (6th to 10th November, 2013)

There may be no rain upto Sunday. Weather would mainly dry over Manipur with clear to mainly clear sky and maximum temp. of 25.0 - 26.0 °C & minimum temp. of 8.0 - 10.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 43 % (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	,		
	Harvest to post-		- Harvest when 80 % of the spikelet turned yellow.
Rice	harvest		- Harvested panicles may be stacked for 5-7 days and turned 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 of rice, zero tillage rape seed may be sown (seed rate is
Mustard			10-12 kg/ha) when soil in the field is soft at 30 cm row spacing.
			- Recommended variety – M-27.
			- After 10-15 days of sowing plant to plant distance may be maintained at
			10-15cm by thinning.
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. Treat the seeds
			with Bavistin @ 2.5 mg/ lit of water before sowing.
Blackgram /	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Rice bean			
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
J			germination of seeds or fungal growth.

- * Light watering during morning hours is advised.
- * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature

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Potato	Land preparation	- Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri
	and seed/tuber	Chipsona. Seed rate is 25-30 quintals/ hectare.
	treatment and	- Collect seed tubers from reliable source and treated it with Sixer
	planting	(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.
		- Strict instructions may be followed for seed purpose.
Onion	Nursery	- Apply Captan 50 WP after final land preparation as preventive measures
		against soil borne diseases. Seed rate: ½ kg seeds for 25 m ² area.
		- Check that new sprouts are not damaged.
		- Use short duration variety (110-120 days crop) so that it may be
		harvested before rains.



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Vegetable nursery (Cole Crops/ Tomato, 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.
Garden pea			- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Mango			As the winter is approaching, pruning of dead twigs and branches is very essential followed by manuring and mulching. For bearing trees, about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP respectively also 8 kg FYM should be applied. For irrigation, community based water harvesting pond or water shed is recommended.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Coccidiosis	 Supercox/ Coccidiostats should be given in feed and drinking water as preventive doses. Administer Amprolium Powder @ 1g/ litre of drinking water for 5-7 days.
		Management	 Cover the wall with hessian cloth/ polysheet during night time. Brooding house must be kept warm. Litter material must be kept dry. The moisture content should not exceed 30%. Formation of cakes/ balls of litter indicate excess moisture.
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 for protection against mange and mites.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @1ml/3kg body weight orally once only.
Cattle / Buffalo/	Above 3 months	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age	FMD	- Vaccinate against FMD.
		Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		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	 Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. Replace half of pond water with fresh & clean water at every 25-30 days interval.
			- Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Harvest	- As per market demand harvesting may be started.
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Ukhrul

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Weather forecast for next five days of Ukhrul (6th to 10th November, 2013)

There may be no rain upto Sunday. Weather would mainly dry over Manipur with clear to mainly clear sky and maximum temp. of 22.0 - 25.0 $^{\circ}$ C & minimum temp. of 4.0 - 6.0 $^{\circ}$ C. Relative Humidity may reach a maximum value of 98 % (maximum RH) & 41 % (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	1		
	Harvest to post-		- Harvest when 80 % of the spikelet turned yellow.
Rice	harvest		- Harvested panicles may be stacked for 5-7 days and turned 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 of rice, zero tillage rape seed may be sown (seed rate is
Mustard			10-12 kg/ha) when soil in the field is soft at 30 cm row spacing.
			- Recommended variety – M-27.
			- After 10-15 days of sowing plant to plant distance may be maintained at
			10-15cm by thinning.
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. Treat the seeds
			with Bavistin @ 2.5 mg/ lit of water before sowing.
Blackgram /	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Rice bean			
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
-			germination of seeds or fungal growth.

- * Light watering during morning hours is advised.
- * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature

as to maintain th	as to manitain the soft temperature.				
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. 			
		- Use short duration variety (110-120 days crop) so that it may be			
		harvested before rains.			
Vegetable	Land preparation	- Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final			
nursery (Cole	for direct sowing/	land preparation (about 4-5 days ahead of sowing/transplanting).			
Crops/ Tomato,	transplanting	- Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and			
etc.)		tomato.			
Garden pea		- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5			
•		mg/lit of water before sowing			



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Mango			As the winter is approaching, pruning of dead twigs and branches is very essential followed by manuring and mulching. For bearing trees, about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP respectively also 8 kg FYM should be applied. For irrigation, community based water
			harvesting pond or water shed is recommended.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Coccidiosis	 - Supercox/ Coccidiostats should be given in feed and drinking water as preventive doses. - Administer Amprolium Powder @ 1g/ litre of drinking water for 5-7 days.
		Management	 Cover the wall with hessian cloth/ polysheet during night time. Brooding house must be kept warm. Litter material must be kept dry. The moisture content should not exceed 30%. Formation of cakes/ balls of litter indicate excess moisture.
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 for protection against mange and mites.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @1ml/3kg body weight orally once only.
Cattle / Buffalo/	Above 3 months of age	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun		FMD	- Vaccinate against FMD.
		Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			<u> </u>
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	 - Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. - Replace half of pond water with fresh & clean water at every 25-30 days interval. - Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Harvest	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.

I. Meghachandra Singh Scientist i/c, IAAS



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 5th November, 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 6th to 10th November, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th November, 2013)

During the past four days the sky was mainly clear but partly cloudy to mainly cloudy during morning hours of $1^{\rm st}$ & $2^{\rm nd}$ Nov and foggy during morning hours of $4^{\rm th}$ Oct. No rainfall was recorded during past four days. Maximum temperature range observed was 26.4-27.9 °C, range of minimum temperature observed was 10.7-12.0 °C, mean relative humidity observed in morning and afternoon were 92 % and 59 % respectively. The average wind speed range was 0.4-1.0 km/hr.

Weather forecast for next five days of Bishnupur (6th to 10th November, 2013)

There may be no rain upto Sunday. Weather would mainly dry over Manipur with clear to mainly clear sky and maximum temp. of 26.0 - 28.0 °C & minimum temp. of 10.0 - 12.0 °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 42 % (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			
Rice	Harvest to post- harvest		 - Harvest when 80 % of the spikelet turned yellow. - Harvested panicles may be stacked for 5-7 days and turned 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/ Mustard	Sowing		 After harvesting of rice, zero tillage rape seed may be sown (seed rate is 10-12 kg/ha) when soil in the field is soft at 30 cm row spacing. Recommended variety – M-27. After 10-15 days of sowing plant to plant distance may be maintained at 10-15cm by thinning.
Field Pea	Land preparation to sowing		 - Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm. - Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Blackgram / Rice bean	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.

- * Light watering during morning hours is advised.
- * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.

Potato	Land preparation	- Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri
	and seed/ tuber	Chipsona. Seed rate is 25-30 quintals/ hectare.
	treatment and	- Collect seed tubers from reliable source and treated it with Sixer
	planting	(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.
		- Strict instructions may be followed for seed purpose.
Onion	Nursery	- Apply Captan 50 WP after final land preparation as preventive measures
		against soil borne diseases. Seed rate: ½ kg seeds for 25 m ² area.
		- Check that new sprouts are not damaged.
		- Use short duration variety (110-120 days crop) so that it may be
		harvested before rains.



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Vegetable nursery (Cole Crops/ Tomato, 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.
Garden pea			- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/lit of water before sowing.
Mango			As the winter is approaching, pruning of dead twigs and branches is very essential followed by manuring and mulching. For bearing trees, about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP respectively also 8 kg FYM should be applied. For irrigation, community based water harvesting pond or water shed is recommended.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Coccidiosis	 Supercox/ Coccidiostats should be given in feed and drinking water as preventive doses. Administer Amprolium Powder @ 1g/ litre of drinking water for 5-7 days.
		Management	 Cover the wall with hessian cloth/ polysheet during night time. Brooding house must be kept warm. Litter material must be kept dry. The moisture content should not exceed 30%. Formation of cakes/ balls of litter indicate excess moisture.
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 for protection against mange and mites.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @1ml/3kg body weight orally once only.
Cattle / Buffalo/	Above 3 months	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age	FMD	- Vaccinate against FMD.
		Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		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	 - Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. - Replace half of pond water with fresh & clean water at every 25-30 days interval.
		Harvest	 Minimum feed must be provided, i.e., @ 1-2% of body weight per day. As per market demand harvesting may be started.
		Feeding	- As per market demand narvesting may be started. - Feeds should be provided 2 times a day.
		1 ceuing	- recus should be provided 2 times a day.



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 5th November, 2013

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 6th to 10th November, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th November, 2013) During the past four days the sky was mainly clear but partly

cloudy to mainly cloudy during morning hours of 1st & 2nd Nov and foggy during morning hours of 4th Oct. No rainfall was recorded during past four days. Maximum temperature range observed was 26.4 - 27.9 °C, range of minimum temperature observed was 10.7 - 12.0 °C, mean relative humidity observed in morning and afternoon were 92 % and 59 % respectively. The average wind speed range was 0.4 -1.0 km/hr.

Weather forecast for next five days of Chandel (6th to 10th November, 2013)

There may be no rain upto Sunday. Weather would mainly dry over Manipur with clear to mainly clear sky and maximum temp. of 25.0 - 27.0 °C & minimum temp. of 9.0 - 10.0 °C. Relative Humidity may reach a maximum value of 98 % (maximum RH) & 44 % (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			
	Harvest to post-		- Harvest when 80 % of the spikelet turned yellow.
Rice	harvest		- Harvested panicles may be stacked for 5-7 days and turned 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 of rice, zero tillage rape seed may be sown (seed rate is
Mustard			10-12 kg/ha) when soil in the field is soft at 30 cm row spacing.
			- Recommended variety – M-27.
			- After 10-15 days of sowing plant to plant distance may be maintained at
			10-15cm by thinning.
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. Treat the seeds
			with Bavistin @ 2.5 mg/ lit of water before sowing.
Blackgram /	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Rice bean			
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
_			germination of seeds or fungal growth.

- * Light watering during morning hours is advised.
- * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well

as to mainta	in the soil temperature.	
Potato	Land preparation	- Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri
	and seed/tuber	Chipsona. Seed rate is 25-30 quintals/ hectare.
	treatment and	- Collect seed tubers from reliable source and treated it with Sixer
	planting	(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.
		- Strict instructions may be followed for seed purpose.
Onion	Nursery	- Apply Captan 50 WP after final land preparation as preventive measures
		against soil borne diseases. Seed rate: ½ kg seeds for 25 m ² area.
		- Check that new sprouts are not damaged.
		- Use short duration variety (110-120 days crop) so that it may be
		harvested before rains.



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Vegetable nursery (Cole Crops/ Tomato, 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.
Garden pea			- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/lit of water before sowing.
Mango			As the winter is approaching, pruning of dead twigs and branches is very essential followed by manuring and mulching. For bearing trees, about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP respectively also 8 kg FYM should be applied. For irrigation, community based water harvesting pond or water shed is recommended.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Coccidiosis	 Supercox/ Coccidiostats should be given in feed and drinking water as preventive doses. Administer Amprolium Powder @ 1g/ litre of drinking water for 5-7 days.
		Management	 Cover the wall with hessian cloth/ polysheet during night time. Brooding house must be kept warm. Litter material must be kept dry. The moisture content should not exceed 30%. Formation of cakes/ balls of litter indicate excess moisture.
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 for protection against mange and mites.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @1ml/3kg body weight orally once only.
Cattle / Buffalo/	Above 3 months	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age	FMD	- Vaccinate against FMD.
		Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		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	 - Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m. - Replace half of pond water with fresh & clean water at every 25-30 days interval.
		Hamiost	- Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Harvest	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.



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MANIPUR BULLETIN 5th November, 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 6th to 10th November, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th November, 2013)

During the past four days the sky was mainly clear but partly cloudy to mainly cloudy during morning hours of $1^{\rm st}$ & $2^{\rm nd}$ Nov and foggy during morning hours of $4^{\rm th}$ Oct. No rainfall was recorded during past four days. Maximum temperature range observed was 26.4-27.9 °C, range of minimum temperature observed was 10.7-12.0 °C, mean relative humidity observed in morning and afternoon were 92 % and 59 % respectively. The average wind speed range was $0.4-1.0~\rm km/hr.$

Weather forecast for next five days of Churachandpur (6^{th} to 10^{th} November, 2013)

There may be no rain upto Sunday. Weather would mainly dry over Manipur with clear to mainly clear sky and maximum temp. of 26.0 - 27.0 °C & minimum temp. of 9.0 - 10.0 °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 41 % (minimum RH). The average wind speed may be 4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
	Harvest to post-		- Harvest when 80 % of the spikelet turned yellow.
Rice	harvest		- Harvested panicles may be stacked for 5-7 days and turned 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/ Mustard	Sowing		- After harvesting of rice, zero tillage rape seed may be sown (seed rate is 10-12 kg/ha) when soil in the field is soft at 30 cm row spacing Recommended variety – M-27.
			- After 10-15 days of sowing plant to plant distance may be maintained at 10-15cm by thinning.
Field Pea	Land preparation to sowing		- Land preparation may be done. Sowing may be done at a spacing of 30cm x 10-15cm.
			- Recommended variety - Rachana. Seed rate is 75 kg/ ha. Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Blackgram / Rice bean	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.

- * Light watering during morning hours is advised.
- * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.

as to mainta	in the son temperature.	
Potato	Land preparation	- Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri
	and seed/tuber	Chipsona. Seed rate is 25-30 quintals/ hectare.
	treatment and	- Collect seed tubers from reliable source and treated it with Sixer
	planting	(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.
		- Strict instructions may be followed for seed purpose.
Onion	Nursery	- Apply Captan 50 WP after final land preparation as preventive measures
		against soil borne diseases. Seed rate: ½ kg seeds for 25 m ² area.
		- Check that new sprouts are not damaged.
		- Use short duration variety (110-120 days crop) so that it may be
		harvested before rains.



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Vegetable	Land preparation		- Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final
nursery (Cole	for direct sowing/		land preparation (about 4-5 days ahead of sowing/ transplanting).
Crops/ Tomato, etc.)	transplanting		- Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and tomato.
Garden pea			- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Mango			As the winter is approaching, pruning of dead twigs and branches is very essential followed by manuring and mulching. For bearing trees, about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP respectively also 8 kg FYM should be applied. For irrigation, community based water harvesting pond or water shed is recommended.
Animal Science	es	1	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Coccidiosis	 Supercox/ Coccidiostats should be given in feed and drinking water as preventive doses. Administer Amprolium Powder @ 1g/ litre of drinking water for 5-7 days.
		Management	 Cover the wall with hessian cloth/ polysheet during night time. Brooding house must be kept warm. Litter material must be kept dry. The moisture content should not exceed 30%. Formation of cakes/ balls of litter indicate excess moisture.
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 for protection against mange and mites.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Deworming	- Deworm using Albendazole @1ml/3kg body weight orally once only.
Cattle / Buffalo/	Above 3 months	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age	FMD	- Vaccinate against FMD.
		Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
		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	- Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m.
			- Replace half of pond water with fresh & clean water at every 25-30 days interval.
			- Minimum feed must be provided, i.e., @ 1-2% of body weight per day.
		Harvest	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 5th November, 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 6th to 10th November, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal

- West (1st to 4th November, 2013)

During the past four days the sky was mainly clear but partly

During the past four days the sky was mainly clear but partly cloudy to mainly cloudy during morning hours of $1^{\rm st}$ & $2^{\rm nd}$ Nov and foggy during morning hours of $4^{\rm th}$ Oct. No rainfall was recorded during past four days. Maximum temperature range observed was 26.4-27.9 °C, range of minimum temperature observed was 10.7-12.0 °C, mean relative humidity observed in morning and afternoon were 92 % and 59 % respectively. The average wind speed range was $0.4-1.0~\rm km/hr.$

Weather forecast for next five days of Imphal - East (6th to 10th November, 2013)

There may be no rain upto Sunday. Weather would mainly dry over Manipur with clear to mainly clear sky and maximum temp. of 25.0 - 27.0 °C & minimum temp. of 9.0 - 11.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 39 % (minimum RH). The average wind speed may be 3-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
	Harvest to post-		- Harvest when 80 % of the spikelet turned yellow.
Rice	harvest		- Harvested panicles may be stacked for 5-7 days and turned 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 of rice, zero tillage rape seed may be sown (seed rate is
Mustard			10-12 kg/ha) when soil in the field is soft at 30 cm row spacing.
			- Recommended variety – M-27.
			- After 10-15 days of sowing plant to plant distance may be maintained at
			10-15cm by thinning.
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. Treat the seeds
			with Bavistin @ 2.5 mg/ lit of water before sowing.
Blackgram /	Pod formation		- Weeding out for proper utilization of nutrients and moisture by the crop.
Rice bean			
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth.

- * Light watering during morning hours is advised.
- * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.

as to mainta	in the soil temperature.	
Potato	Land preparation	- Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri
	and seed/tuber	Chipsona. Seed rate is 25-30 quintals/ hectare.
	treatment and	- Collect seed tubers from reliable source and treated it with Sixer
	planting	(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.
		- Strict instructions may be followed for seed purpose.
Onion	Nursery	- Apply Captan 50 WP after final land preparation as preventive measures
		against soil borne diseases. Seed rate: ½ kg seeds for 25 m ² area.
		- Check that new sprouts are not damaged.
		- Use short duration variety (110-120 days crop) so that it may be
		harvested before rains.



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



All susceptible age groups Coccident	preventive doses. - Administer Amprolium Powder @ 1g/ litre of drin days. - Cover the wall with hessian cloth/ polysheet during Brooding house must be kept warm. - Litter material must be kept dry. The moisture con 30%. Formation of cakes/ balls of litter indicate excepting Comming - Administer Banif Bolus orally @ 1 bolus/ 100 kg to the second state of the sec	gs and branches is very or bearing trees, about and MOP respectively community based water as and drinking water as anking water for 5-7 ag night time. Intent should not exceed cess moisture. b. wt.
Animal Sciences Name of the animal Poultry All susceptible age groups Above 3 months of age Cattle / Buffalo/ Mithun Animal Sciences Growth stage Disease Dise	essential followed by manuring and mulching. For five years old, 425 g, 275 g and 280 g Urea, SSP also 8 kg FYM should be applied. For irrigation, c harvesting pond or water shed is recommended. **Page 1.5 **Page 2.5 **Page 3.5 **	or bearing trees, about and MOP respectively community based water as and drinking water as a nking water for 5-7 ag night time. Intent should not exceed cess moisture. b. wt.
Name of the animal Poultry All susceptible age groups Above 3 months of age Pig Above 3 months of age Cattle / Buffalo/ Mithun Above 3 months of age Cattle / Buffalo/ Mithun Crowth stage All susceptible age groups Mana Dewo	- Supercox/ Coccidiostats should be given in feed at preventive doses Administer Amprolium Powder @ 1g/ litre of drin days. gement - Cover the wall with hessian cloth/ polysheet during Brooding house must be kept warm Litter material must be kept dry. The moisture con 30%. Formation of cakes/ balls of litter indicate excepting - Administer Banif Bolus orally @ 1 bolus/ 100 kg	nd drinking water as hking water for 5-7 ag night time. htent should not exceed cess moisture. b. wt.
All susceptible age groups All susceptible age groups Mana Sheep/ Goat Above 3 months of age Pig Above 3 months of age Ectop Dewo Cattle / Buffalo/ Mithun Above 3 months of age Ectop Dewo FMD	- Supercox/ Coccidiostats should be given in feed at preventive doses Administer Amprolium Powder @ 1g/ litre of drin days. gement - Cover the wall with hessian cloth/ polysheet during Brooding house must be kept warm Litter material must be kept dry. The moisture con 30%. Formation of cakes/ balls of litter indicate excepting - Administer Banif Bolus orally @ 1 bolus/ 100 kg	nd drinking water as hking water for 5-7 ag night time. htent should not exceed cess moisture. b. wt.
Above 3 months of age Cattle / Buffalo/ Mithun B.Q. & FMD	preventive doses. - Administer Amprolium Powder @ 1g/ litre of drindays. - Cover the wall with hessian cloth/ polysheet during Brooding house must be kept warm. - Litter material must be kept dry. The moisture con 30%. Formation of cakes/ balls of litter indicate excepting - Administer Banif Bolus orally @ 1 bolus/ 100 kg	nking water for 5-7 ng night time. ntent should not exceed cess moisture. b. wt.
Sheep/ Goat Above 3 months of age Pig Above 3 months of age Ectop Dewo Cattle / Buffalo/ Mithun Above 3 months of age Ectop Dewo FMD	- Brooding house must be kept warm Litter material must be kept dry. The moisture con 30%. Formation of cakes/ balls of litter indicate exerming - Administer Banif Bolus orally @ 1 bolus/ 100 kg	ntent should not exceed cess moisture. b. wt.
Pig Above 3 months of age Ectop Cattle / Buffalo/ Mithun Above 3 months of age FMD	rming - Administer Banif Bolus orally @ 1 bolus/ 100 kg	b. wt.
Pig Above 3 months of age Ectop Cattle / Buffalo/ Mithun of age FMD		
of age Ectop Dewo Cattle / Buffalo/ Mithun of age FMD	mites.	
Cattle / Buffalo/ Above 3 months of age FMD	Fever - Vaccinate against swine fever after the age of 3 me	onths.
Cattle / Buffalo/ Above 3 months of age B.Q. & FMD	arasites - Spray Butox @ 2ml in 1 lit of water, twice a week	 [.
Mithun of age FMD	rming - Deworm using Albendazole @1ml/3kg body weig	ght orally once only.
or age FMID	H.S Vaccinate against B.Q. & H.S.	
Param	- Vaccinate against FMD.	
	- Deworm with liquid Tolzan-F @ 30ml/kg bo altitudes.	ody weight for lower
Ectop	arasites - Spray Butox @ 2ml in 1 lit of water, twice a week	ζ.
Fisheries		
	gement Agro-metrological advisories	
Carp culture Grow-out Pond		r at every 25-30 days
Harve		ouy weight per day.
Feedi		