

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 1st 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 2nd to 6th November, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th to 31st October, 2013)

Weather forecast for next five days of Bishnupur (2nd to 6th November, 2013)

During the past three days the sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 30^{th} & 31^{st} Oct. **3.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 28.0 °C, range of minimum temperature observed was 12.7 - 15.1 °C, mean relative humidity observed in morning and afternoon were 89.7 % and 55.3 % respectively. The average wind speed range was 1.5 - 2.4 km/hr.

There may be no rain upto Wednesday. Weather would mainly dry/dry over Manipur with clear to mainly clear sky and maximum temp. of 25.0 - 26.0 °C and minimum temp. of 10.0 – 12.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 46 % (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	1	1	,
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.
Horticulture Cro	ps		, , ,
Potato	Land preparation and seed/ tuber treatment and planting		 Soil may be prepared to fine tilt for planting potatoes. Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare. 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. 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 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 nursery (Cole Crops/ Tomato)	Nursery	Cut-worm	- Apply <i>Chloropyriphos (1.5%) dust</i> @25 kg /ha.



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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 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	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/3kgbody 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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MANIPUR BULLETIN 1st November, 2013

Chandel

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Significant past weather for the preceding bi-weekly of Imphal - West (29th to 31st October, 2013)

Weather forecast for next five days of Chandel (2nd to 6th November, 2013)

During the past three days the sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 30^{th} & 31^{st} Oct. **3.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 28.0 °C, range of minimum temperature observed was 12.7 - 15.1 °C, mean relative humidity observed in morning and afternoon were 89.7 % and 55.3 % respectively. The average wind speed range was 1.5 - 2.4 km/hr.

There may be no rain upto Wednesday. Weather would mainly dry/dry over Manipur with clear to mainly clear sky and maximum temp. of 24.0 - 26.0 °C and minimum temp. of 10.0 - 11.0 °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 56 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
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.
Horticulture Cro	ps		, , ,
Potato	Land preparation and seed/ tuber treatment and planting		 Soil may be prepared to fine tilt for planting potatoes. Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare. 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. 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 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 nursery (Cole Crops/ Tomato)	Nursery	Cut-worm	- Apply Chloropyriphos (1.5%) dust @25 kg /ha.



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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/ Garden pea, etc.)	transplanting		- Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and
Guruen peu, etc.)			tomato.
			- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5
			mg/ lit of water before sowing.
Animal Science	1		
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.
Sheep/ Goat)	· · · · · · · · · · · · · · · · · · ·
	or 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/3kgbody 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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MANIPUR BULLETIN 1st 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 2nd to 6th November, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th to 31st October, 2013)

During the past three days the sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 30^{th} & 31^{st} Oct. **3.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 28.0 °C, range of minimum temperature observed was 12.7 - 15.1 °C, mean relative humidity observed in morning and afternoon were 89.7 % and 55.3 % respectively. The average wind speed range was 1.5 - 2.4 km/hr.

Weather forecast for next five days of Churachandpur (2nd to 6th November, 2013)

There may be no rain upto Wednesday. Weather would mainly dry/dry over Manipur with clear to mainly clear sky and maximum temp. of 24.0 - 25.0 °C and minimum temp. of 8.0 – 10.0 °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	1		
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.
Horticulture Cro	ps	ı	
Potato	Land preparation and seed/ tuber treatment and planting		 Soil may be prepared to fine tilt for planting potatoes. Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare. 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. 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 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 nursery (Cole Crops/ Tomato)	Nursery	Cut-worm	- Apply Chloropyriphos (1.5%) dust @25 kg /ha.



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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 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
•	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/3kgbody 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.



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MANIPUR BULLETIN 1st November, 2013

Imphal-East

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Significant past weather for the preceding bi-weekly of Imphal - West (29th to 31st October, 2013)

Weather forecast for next five days of Imphal - East (2nd to 6th November, 2013)

During the past three days the sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 30^{th} & 31^{st} Oct. **3.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 28.0 °C, range of minimum temperature observed was 12.7 - 15.1 °C, mean relative humidity observed in morning and afternoon were 89.7 % and 55.3 % respectively. The average wind speed range was 1.5 - 2.4 km/hr.

There may be no rain upto Wednesday. Weather would mainly dry/dry over Manipur with clear to mainly clear sky and maximum temp. of 24.0 - 26.0 °C and minimum temp. of 10.0 - 12.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 43 % (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	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.
Horticulture Cro	ps	L	<u>, c</u>
Potato	Land preparation and seed/ tuber treatment and planting		 Soil may be prepared to fine tilt for planting potatoes. Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare. 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. 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 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 nursery (Cole Crops/ Tomato)	Nursery	Cut-worm	- Apply Chloropyriphos (1.5%) dust @25 kg /ha.



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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 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	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/3kgbody 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	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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MANIPUR BULLETIN 1st November, 2013

Imphal-West

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and afternoon were 89.7 % and 55.3 % respectively. The

average wind speed range was 1.5 - 2.4 km/hr.

During the past three days the sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 30th & 31st Oct. **3.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 28.0 °C, range of minimum temperature observed was 12.7 – 15.1 °C, mean relative humidity observed in morning

Weather forecast for next five days of Imphal - West (2nd to 6th November, 2013)

There may be no rain upto Wednesday. Weather would mainly dry/dry over Manipur with clear to mainly clear sky and maximum temp. of 24.0 - 26.0 °C and minimum temp. of 10.0 – 12.0 °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 41 % (minimum RH). The average wind speed may be 2-5 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
Rapeseed/ Mustard	Sowing		grains/ seeds to 12-14% moisture if mechanical thresher is used. - 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.
Horticulture Cro	ops	1	
Potato	Land preparation and seed/ tuber treatment and planting		 Soil may be prepared to fine tilt for planting potatoes. Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare. 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. 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 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 nursery (Cole Crops/ Tomato)	Nursery	Cut-worm	- Apply Chloropyriphos (1.5%) dust @25 kg /ha.



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



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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 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
•	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/3kgbody 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.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 1st 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 2nd to 6th November, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th to 31st October, 2013)

Weather forecast for next five days of Senapati (2nd to 6th November, 2013)

During the past three days the sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 30^{th} & 31^{st} Oct. **3.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 28.0 °C, range of minimum temperature observed was 12.7 - 15.1 °C, mean relative humidity observed in morning and afternoon were 89.7 % and 55.3 % respectively. The average wind speed range was 1.5 - 2.4 km/hr.

There may be no rain upto Wednesday. Weather would mainly dry/dry over Manipur with clear to mainly clear sky and maximum temp. of 23.0 - 25.0 °C and minimum temp. of 6.0 – 8.0 °C. Relative Humidity may reach a maximum value of 100 % (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.
Horticulture Cro	ps		
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 nursery (Cole Crops/ Tomato)	Nursery	Cut-worm	- Apply Chloropyriphos (1.5%) dust @25 kg /ha.
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.



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Animal Scienc	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.
		Wianagement	- 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/3kgbody 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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MANIPUR BULLETIN 1st November, 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 2nd to 6th November, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th to 31st October, 2013)

Weather forecast for next five days of Tamenglong (2nd to 6th November, 2013)

During the past three days the sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 30^{th} & 31^{st} Oct. **3.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 28.0 °C, range of minimum temperature observed was 12.7 - 15.1 °C, mean relative humidity observed in morning and afternoon were 89.7 % and 55.3 % respectively. The average wind speed range was 1.5 - 2.4 km/hr.

There may be no rain upto Wednesday. Weather would mainly dry/dry over Manipur with clear to mainly clear sky and maximum temp. of 24.0 - 25.0 °C and minimum temp. of 10.0 - 11.0 °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 41 % (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	1		
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.
Horticulture Cro	ps		, , ,
Potato	Land preparation and seed/ tuber treatment and planting		 Soil may be prepared to fine tilt for planting potatoes. Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare. 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. 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 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 nursery (Cole Crops/ Tomato)	Nursery	Cut-worm	- Apply Chloropyriphos (1.5%) dust @25 kg /ha.



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	1	1	
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	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/3kgbody 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			
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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MANIPUR BULLETIN 1st November, 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 2nd to 6th November, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th to 31st October, 2013)

Weather forecast for next five days of Thoubal (2nd to 6th November, 2013)

During the past three days the sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 30^{th} & 31^{st} Oct. **3.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 28.0 °C, range of minimum temperature observed was 12.7 - 15.1 °C, mean relative humidity observed in morning and afternoon were 89.7 % and 55.3 % respectively. The average wind speed range was 1.5 - 2.4 km/hr.

There may be no rain upto Wednesday. Weather would mainly dry/dry over Manipur with clear to mainly clear sky and maximum temp. of 24.0 - 26.0 °C and minimum temp. of 9.0 – 11.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 50 % (minimum RH). The average wind speed may be 0-2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1	1	·
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.
Horticulture Cro	ps		
Potato	Land preparation and seed/ tuber treatment and planting		 Soil may be prepared to fine tilt for planting potatoes. Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare. 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. 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 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 nursery (Cole Crops/ Tomato)	Nursery	Cut-worm	- Apply <i>Chloropyriphos (1.5%) dust</i> @25 kg /ha.



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	I	1	
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	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/3kgbody 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	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.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 1st November, 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 2nd to 6th November, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th to 31st October, 2013)

Weather forecast for next five days of Ukhrul (2nd to 6th November, 2013)

During the past three days the sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 30^{th} & 31^{st} Oct. **3.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.9 – 28.0 °C, range of minimum temperature observed was 12.7 - 15.1 °C, mean relative humidity observed in morning and afternoon were 89.7 % and 55.3 % respectively. The average wind speed range was 1.5 - 2.4 km/hr.

There may be no rain upto Wednesday. Weather would mainly dry/dry over Manipur with clear to mainly clear sky and maximum temp. of 21.0 - 23.0 °C and minimum temp. of 6.0 - 8.0 °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 51 % (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 fo 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.
Horticulture Cro	ps		
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 nursery (Cole Crops/ Tomato)	Nursery	Cut-worm	- Apply Chloropyriphos (1.5%) dust @25 kg /ha.
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.



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



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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 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/3kgbody 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			
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.