HIP-I-RI ICAR

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th November, 2013

Imphal-East

Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 7 th November, 2013)	Weather forecast for next five days of Imphal - East (9 th to 13 th November, 2013)
During the past three days the sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was $27.5 - 28.3$ °C, range of minimum temperature observed was $9.0 - 10.8$ °C, mean relative humidity observed in morning and afternoon were 86.7 % and 52.3 % respectively. The average wind speed range was $0.2 - 0.6$ km/hr.	There may be no rain upto Wednesday. Weather will be sunny with clear to mainly clear sky and maximum temp. of $25.0 - 27.0$ °C & minimum temp. 6.0 - 8.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 38 % (minimum RH). The average wind speed may be 2 - 6 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.
Rabi Maize	Land preparation		- Land preparation for sowing rabi maize may be started.
Blackgram / Rice bean	Pod maturity to harvesting		- Mature pods may be harvested and sundried properly.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Cro	ps		
Potato	Land preparation and seed/ tuber treatment and planting	For seed production	 Select field which are either free from brown rot or have minimum inoculums in the field. It must not be planted in those fields in which solanacea crops like tomato, brinjal, chilli, etc. were grown. Apply 3kg bleaching powder/ sangam at the time of land preparation to avoid brown rot. Plant properly sprouted seeds only. Do not cut the tubers. Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare.
		For consumption	 Seeds must be treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes Sprouted seeds are preferred for planting. If not available, then seeds may be covered with a thin layer of sand for easy and early sprouting.





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Onion	Nursery	- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Seed rate: ¹ / ₂ kg seeds for 25 m ² area.
		- Check that new sprouts are not damaged.
Cole Crops/	Transplanting to	- Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and
Tomato, etc.	early vegetative	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
C		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.

* Light watering to the crops in nursery stage 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.

Animal Science		1	
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	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	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.	
Mithun	of age	FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- 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 in two splits @ 1-2 % of body weight per day.
		Harvest	- As per market demand harvesting may be done.

SMS:

ICAR MNP: Sunny weather upto Wednesday. Harvest blackgram and sundry before

storage. Land preparation for sowing rabi maize may be started.

Vaccinate pig against swine fever after the age of 3 months.

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th November, 2013

Imphal-West

Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 7 th November, 2013)	Weather forecast for next five days of Imphal - West (9 th to 13 th November, 2013)
During the past three days the sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was $27.5 - 28.3$ °C, range of minimum temperature observed was $9.0 - 10.8$ °C, mean relative humidity observed in morning and afternoon were 86.7 % and 52.3 % respectively. The average wind speed range was $0.2 - 0.6$ km/hr.	There may be no rain upto Wednesday. Weather will be sunny with clear to mainly clear sky and maximum temp. of $26.0 - 27.0$ °C & minimum temp. $6.0 - 8.0$ °C. Relative Humidity may reach a maximum value of 97 % (maximum RH) & 38 % (minimum RH). The average wind speed may be 3 - 6 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.
Rabi Maize	Land preparation		- Land preparation for sowing rabi maize may be started.
Blackgram / Rice bean	Pod maturity to harvesting		- Mature pods may be harvested and sundried properly.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Cro	ps		
Potato	Land preparation and seed/ tuber treatment and planting	For seed production	 Select field which are either free from brown rot or have minimum inoculums in the field. It must not be planted in those fields in which solanacea crops like tomato, brinjal, chilli, etc. were grown. Apply 3kg bleaching powder/ sangam at the time of land preparation to avoid brown rot. Plant properly sprouted seeds only. Do not cut the tubers. Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare.
		For consumption	 Seeds must be treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes Sprouted seeds are preferred for planting. If not available, then seeds may be covered with a thin layer of sand for easy and early sprouting.





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Onion	Nursery	- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Seed rate: ¹ / ₂ kg seeds for 25 m ² area.
		- Check that new sprouts are not damaged.
Cole Crops/	Transplanting to	- Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and
Tomato, etc.	early vegetative	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.

* Light watering to the crops in nursery stage 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.

Animal Science		1	
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/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.
		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 in two splits @ 1-2 % of body weight per day.
		Harvest	- As per market demand harvesting may be done.

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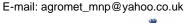
ICAR MNP: Sunny weather upto Wednesday. Harvest blackgram and sundry before

storage. Land preparation for sowing rabi maize may be started.

Vaccinate pig against swine fever after the age of 3 months.

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





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th 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 9th to 13th November, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 7 th November, 2013)	Weather forecast for next five days of Senapati (9 th to 13 th November, 2013)
During the past three days the sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was $27.5 - 28.3$ °C, range of minimum temperature observed was $9.0 - 10.8$ °C, mean relative humidity observed in morning and	There may be no rain upto Wednesday. Weather will be sunny with clear to mainly clear sky and maximum temp. of 24.0 - 26.0 °C & minimum temp. 5.0 -7.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 37 % (minimum RH). The
afternoon were 86.7 % and 52.3 % respectively. The average wind speed range was $0.2 - 0.6$ km/hr.	average wind speed may be 3 - 6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	l l		
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.
Rabi Maize	Land preparation		- Land preparation for sowing rabi maize may be started.
Blackgram / Rice bean	Pod maturity to harvesting		- Mature pods may be harvested and sundried properly.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
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.
Cole Crops/	Transplanting to		- Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and
Tomato, etc.	early vegetative		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.

* In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well

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as to maintain the	e soil temperature.		
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	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age	FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries		l.	
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 in two splits @ 1-2 % of body weight per day.
		Harvest	- As per market demand harvesting may be done.

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ICAR MNP: Sunny weather upto Wednesday. Harvest blackgram and sundry before storage. Land preparation for sowing rabi maize may be started. Vaccinate pig against swine fever after the age of 3 months.

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th November, 2013

Tamenglong

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (5 th to 7 th November, 2013)	(9 th to 13 th November, 2013)
During the past three days the sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was $27.5 - 28.3$ °C, range of minimum temperature observed was $9.0 - 10.8$ °C, mean relative humidity observed in morning and afternoon were 86.7 % and 52.3 % respectively. The average wind speed range was $0.2 - 0.6$ km/hr.	There may be no rain upto Wednesday. Weather will be sunny with clear to mainly clear sky and maximum temp. of 27.0 - 29.0 °C & minimum temp. $8.0 - 10.0$ °C. Relative Humidity may reach a maximum value of 94 % (maximum RH) & 36 % (minimum RH). The average wind speed may be 3 - 6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	l		
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.
Rabi Maize	Land preparation		- Land preparation for sowing rabi maize may be started.
Blackgram / Rice bean	Pod maturity to harvesting		- Mature pods may be harvested and sundried properly.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Cro	ps	•	
Potato	Land preparation and seed/ tuber treatment and planting	For seed production	 Select field which are either free from brown rot or have minimum inoculums in the field. It must not be planted in those fields in which solanacea crops like tomato, brinjal, chilli, etc. were grown. Apply 3kg bleaching powder/ sangam at the time of land preparation to avoid brown rot. Plant properly sprouted seeds only. Do not cut the tubers. Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare.
		For consumption	 Seeds must be treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes Sprouted seeds are preferred for planting. If not available, then seeds may be covered with a thin layer of sand for easy and early sprouting.





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Onion	Nursery	- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Seed rate: ¹ / ₂ kg seeds for 25 m ² area.
		- Check that new sprouts are not damaged.
Cole Crops/	Transplanting to	- Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and
Tomato, etc.	early vegetative	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.

* Light watering to the crops in nursery stage 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.

Animal Science		T	
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	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age	FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- 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 in two splits @ 1-2 % of body weight per day.
		Harvest	- As per market demand harvesting may be done.

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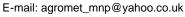
ICAR MNP: Sunny weather upto Wednesday. Harvest blackgram and sundry before

storage. Land preparation for sowing rabi maize may be started.

Vaccinate pig against swine fever after the age of 3 months.

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





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th November, 2013

Thoubal

Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 7 th November, 2013)	<u>Weather forecast for next five days of Thoubal</u> (9 th to 13 th November, 2013)
During the past three days the sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was $27.5 - 28.3$	There may be no rain upto Wednesday. Weather will be sunny with clear to mainly clear sky and maximum temp. of $26.0 - 27.0$ °C & minimum temp. $6.0 - 8.0$
°C, range of minimum temperature observed was 9.0 –	°C. Relative Humidity may reach a maximum value of
10.8 °C, mean relative humidity observed in morning and afternoon were 86.7 % and 52.3 % respectively. The	100 % (maximum RH) & 44 % (minimum RH). The average wind speed may be 2 - 4 km/hr during next
average wind speed range was $0.2 - 0.6$ km/hr.	five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		l	J
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.
Rabi Maize	Land preparation		- Land preparation for sowing rabi maize may be started.
Blackgram / Rice bean	Pod maturity to harvesting		- Mature pods may be harvested and sundried properly.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Cro	ps		
Potato	Land preparation and seed/ tuber treatment and planting	For seed production	 Select field which are either free from brown rot or have minimum inoculums in the field. It must not be planted in those fields in which solanacea crops like tomato, brinjal, chilli, etc. were grown. Apply 3kg bleaching powder/ sangam at the time of land preparation to avoid brown rot. Plant properly sprouted seeds only. Do not cut the tubers. Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare.
		For consumption	 Seeds must be treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes Sprouted seeds are preferred for planting. If not available, then seeds may be covered with a thin layer of sand for easy and early sprouting.





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Onion	Nursery	- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Seed rate: ¹ / ₂ kg seeds for 25 m ² area.
		- Check that new sprouts are not damaged.
Cole Crops/	Transplanting to	- Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and
Tomato, etc.	early vegetative	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.

* Light watering to the crops in nursery stage 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.

Animal Science		T	
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 least day. The maintum content should not avoid and avoid be avoid by the statement of the stat
			- 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	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
Mithun	of age	FMD	- Vaccinate against FMD.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- 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 in two splits @ 1-2 % of body weight per day.
		Harvest	- As per market demand harvesting may be done.

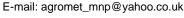
SMS:

ICAR MNP: Sunny weather upto Wednesday. Harvest blackgram and sundry before

storage. Land preparation for sowing rabi maize may be started.

Vaccinate pig against swine fever after the age of 3 months.

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





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th 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 9th to 13th November, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (5 th to 7 th November, 2013)	(9 th to 13 th November, 2013)
During the past three days the sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was $27.5 - 28.3$ °C, range of minimum temperature observed was $9.0 - 10.8$ °C, mean relative humidity observed in morning and afternoon were 86.7 % and 52.3 % respectively. The average wind speed range was $0.2 - 0.6$ km/hr.	There may be no rain upto Wednesday. Weather will be sunny with clear to mainly clear sky and maximum temp. of $23.0 - 25.0$ °C & minimum temp. $4.0 - 7.0$ °C. Relative Humidity may reach a maximum value of 98 % (maximum RH) & 45 % (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	l l		
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.
Rabi Maize	Land preparation		- Land preparation for sowing rabi maize may be started.
Blackgram / Rice bean	Pod maturity to harvesting		- Mature pods may be harvested and sundried properly.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
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.
Cole Crops/	Transplanting to		- Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and
Tomato, etc.	early vegetative		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.

* In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well

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



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as to maintain the	e soil temperature.		
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.
		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 in two splits @ 1-2 % of body weight per day.
		Harvest	- As per market demand harvesting may be done.

SMS:

ICAR MNP: Sunny weather upto Wednesday. Harvest blackgram and sundry before storage. Land preparation for sowing rabi maize may be started. Vaccinate pig against swine fever after the age of 3 months.

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MANIPUR BULLETIN 8th November, 2013

Bishnupur

Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 7 th November, 2013)	Weather forecast for next five days of Bishnupur (9 th to 13 th November, 2013)
During the past three days the sky was clear to mainly clear. No rainfall was recorded during past three days.	There may be no rain upto Wednesday. Weather will be sunny with clear to mainly clear sky and maximum
Maximum temperature range observed was $27.5 - 28.3$	temp. of 26.0 - 27.0 °C & minimum temp. 7.0 - 8.0
°C, range of minimum temperature observed was 9.0 –	°C. Relative Humidity may reach a maximum value of
10.8 °C, mean relative humidity observed in morning and	98 % (maximum RH) & 42 % (minimum RH). The
afternoon were 86.7 % and 52.3 % respectively. The	average wind speed may be 2 - 4 km/hr during next
average wind speed range was $0.2 - 0.6$ km/hr.	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.
Rabi Maize	Land preparation		- Land preparation for sowing rabi maize may be started.
Blackgram / Rice bean	Pod maturity to harvesting		- Mature pods may be harvested and sundried properly.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Cro	ps		· · · · · · · · · · · · · · · · · · ·
Potato	Land preparation and seed/ tuber treatment and planting	For seed production	 Select field which are either free from brown rot or have minimum inoculums in the field. It must not be planted in those fields in which solanacea crops like tomato, brinjal, chilli, etc. were grown. Apply 3kg bleaching powder/ sangam at the time of land preparation to avoid brown rot. Plant properly sprouted seeds only. Do not cut the tubers. Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare. Seeds must be treated it with Sixer (Carbendazim + Mencozeb) @ 2
			gm/lit of water for 20 minutes - Sprouted seeds are preferred for planting. If not available, then seeds may be covered with a thin layer of sand for easy and early sprouting.





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Onion	Nursery	- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Seed rate: ¹ / ₂ kg seeds for 25 m ² area.
		- Check that new sprouts are not damaged.
Cole Crops/	Transplanting to	- Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and
Tomato, etc.	early vegetative	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.

* Light watering to the crops in nursery stage 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.

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	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.
		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 in two splits @ 1-2 % of body weight per day.
		Harvest	- As per market demand harvesting may be done.

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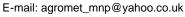
ICAR MNP: Sunny weather upto Wednesday. Harvest blackgram and sundry before

storage. Land preparation for sowing rabi maize may be started.

Vaccinate pig against swine fever after the age of 3 months.

HIDDRE 241

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th November, 2013

Chandel

Significant past weather for the preceding bi-weekly of Imphal - West (5 th to 7 th November, 2013)	Weather forecast for next five days of Chandel (9 th to 13 th November, 2013)
During the past three days the sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was $27.5 - 28.3$ °C, range of minimum temperature observed was $9.0 - 10.8$ °C, mean relative humidity observed in morning and afternoon were 86.7 % and 52.3 % respectively. The	be sunny with clear to mainly clear sky and maximum temp. of $27.0 - 28.0$ °C & minimum temp. $7.0 - 8.0$ °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 49 % (minimum RH). The average wind speed may be 3 - 4 km/hr during next
average wind speed range was $0.2 - 0.6$ km/hr.	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.
Rabi Maize	Land preparation		- Land preparation for sowing rabi maize may be started.
Blackgram / Rice bean	Pod maturity to harvesting		- Mature pods may be harvested and sundried properly.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Cro	ps		
Potato	Land preparation and seed/ tuber treatment and planting	For seed production	 Select field which are either free from brown rot or have minimum inoculums in the field. It must not be planted in those fields in which solanacea crops like tomato, brinjal, chilli, etc. were grown. Apply 3kg bleaching powder/ sangam at the time of land preparation to avoid brown rot. Plant properly sprouted seeds only. Do not cut the tubers. Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare.
		For consumption	 Seeds must be treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes Sprouted seeds are preferred for planting. If not available, then seeds may be covered with a thin layer of sand for easy and early sprouting.





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Onion	Nursery	- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Seed rate: ¹ / ₂ kg seeds for 25 m ² area.
		- Check that new sprouts are not damaged.
Cole Crops/	Transplanting to	- Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and
Tomato, etc.	early vegetative	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.

* Light watering to the crops in nursery stage 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.

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	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.
		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 in two splits @ 1-2 % of body weight per day.
		Harvest	- As per market demand harvesting may be done.

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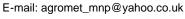
ICAR MNP: Sunny weather upto Wednesday. Harvest blackgram and sundry before

storage. Land preparation for sowing rabi maize may be started.

Vaccinate pig against swine fever after the age of 3 months.

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





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th November, 2013

Churachandpur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur
Imphal - West (5 th to 7 th November, 2013)	(9 th to 13 th November, 2013)
During the past three days the sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was $27.5 - 28.3$ °C, range of minimum temperature observed was $9.0 - 10.8$ °C, mean relative humidity observed in morning and afternoon were 86.7 % and 52.3 % respectively. The average wind speed range was $0.2 - 0.6$ km/hr.	There may be no rain upto Wednesday. Weather will be sunny with clear to mainly clear sky and maximum temp. of $26.0 - 28.0$ °C & minimum temp. $7.0 - 9.0$ °C. Relative Humidity may reach a maximum value of 98 % (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 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.
Rabi Maize	Land preparation		- Land preparation for sowing rabi maize may be started.
Blackgram / Rice bean	Pod maturity to harvesting		- Mature pods may be harvested and sundried properly.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Cro	ps		
Potato	Land preparation and seed/ tuber treatment and planting	For seed production	 Select field which are either free from brown rot or have minimum inoculums in the field. It must not be planted in those fields in which solanacea crops like tomato, brinjal, chilli, etc. were grown. Apply 3kg bleaching powder/ sangam at the time of land preparation to avoid brown rot. Plant properly sprouted seeds only. Do not cut the tubers. Recommended varieties are Kufri Megha, Kufri Jyoti and Kufri Chipsona. Seed rate is 25-30 quintals/ hectare.
		For consumption	 Seeds must be treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for 20 minutes Sprouted seeds are preferred for planting. If not available, then seeds may be covered with a thin layer of sand for easy and early sprouting.





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Onion	Nursery	- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Seed rate: ¹ / ₂ kg seeds for 25 m ² area.
		- Check that new sprouts are not damaged.
Cole Crops/	Transplanting to	- Transplant 25-30 days old seedlings (4 leaves stage) of cole crops and
Tomato, etc.	early vegetative	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.

* Light watering to the crops in nursery stage 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.

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	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.
		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 in two splits @ 1-2 % of body weight per day.
		Harvest	- As per market demand harvesting may be done.

SMS:

ICAR MNP: Sunny weather upto Wednesday. Harvest blackgram and sundry before

storage. Land preparation for sowing rabi maize may be started.

Vaccinate pig against swine fever after the age of 3 months.