



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

1st May, 2015

Imphal-East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 2nd to 6th May, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th April, 2015)

During last three days sky was mainly clear to partly cloudy. **4.8 mm** rainfall was recorded during last three days. Maximum temperature range observed was 25.5 – 26.9 °C, range of minimum temperature observed was 14.5 – 15.9 °C, mean relative humidity observed in morning and afternoon were 88.3 % and 65.7 % respectively. The average wind speed range was 2.1 – 2.8 km/hr.

Weather forecast for next five days of Imphal- East (2nd to 6th May, 2015)

There may be light to moderate rain upto Sunday then light rainfall thereafter. Sky will be partly cloudy to mainly cloudy with maximum temp. of 25.0 – 29.0 °C & minimum temp. 14.0 – 18.0 °C. Relative humidity may reach upto 98 % (max RH) & 43 % (min 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			
* Harvest rain water. * Construct proper drainage system in and around the crop field.			
Pre-kharif Rice	Tillering to panicle initiation stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
Kharif Rice	Land preparation for nursery		- For main kharif season the soil may be opened with tillers or disc ploughs. Seeds may be procured. - Prepare nursery bed of 700 m ² area, apply well decomposed FYM/ compost @ 1 t/ 700 m ² at final leveling. Seed rate is 60-65kg for a hectare. - Soaking and incubation of well filled disease free seeds may be started. Treat seeds with Nativo@2g/kg seed.
Rabi Maize	Cob formation to maturity stage		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
Soybean	Land preparation to sowing		Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sowing may be done at spacing of 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree Bean	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
Cucurbits	Vegetative to flowering and fruiting		- Construct proper staking system to support plant and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly also insecticides like Cypermethrin may be sprayed.
Colocassia	Planting		- Select upland/ slope area to avoid water stagnation problem during rainy days. Low land area requires more nutrients for higher yield.



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“Gramin Krishi Mausam Seva”

			<ul style="list-style-type: none"> - Apply 25-30t FYM/sangam (@5-6 cartloads) during final land preparation or 10-20 days before transplanting it may be incorporated in the soil with $\frac{3}{4}$ of N, full dose of P and K (39kg Urea, 125kg SSP and 40kg MOP) per sangam. Remaining 13 kg Urea should be applied as top dress during earthing-up (shallow hoeing). - Use disease free quality planting material. Treat the corm/ cormets with either Carbendazim@ 2g/ kg seed or with Sixer (Carbendazim + Mencozeb) @2g/ kg seed. - 30-50g seed size may be sown at a spacing of 30-45cm seed to seed and 45-60cm row to row. Depth of the planting should not be more than 8cm. - Weed free zone/bed at the initial stage is required. Shallow hoeing at the time of earthing up for better development of corm and cormet is required.
Alocassia			<ul style="list-style-type: none"> - For home consumption or in small scale, plant Alocassia seedling (approximately 3-4 leaf stage (one month old) at 45 x 60cm or 30-50g cormet may also be used.
Bhindi/ French bean	Vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Avoid water logging.

Animal Sciences

** Provide clean drinking water for birds and animals.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		- Bleaching powder may be spread near farm premises.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	<ul style="list-style-type: none"> - Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

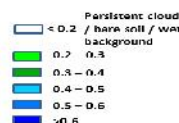
Fisheries

- * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water

North East Region



29 April 2015



Agriculture vigour is good in valleys of hilly range of North-East states which covers part of Assam. NDVI values vary from 0.4-0.5. Normal NDVI conditions are observed all over NE region.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

1st May, 2015

Imphal-West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 2nd to 6th May, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th April, 2015)

During last three days sky was mainly clear to partly cloudy. **4.8 mm** rainfall was recorded during last three days. Maximum temperature range observed was 25.5 – 26.9 °C, range of minimum temperature observed was 14.5 – 15.9 °C, mean relative humidity observed in morning and afternoon were 88.3 % and 65.7 % respectively. The average wind speed range was 2.1 – 2.8 km/hr.

Weather forecast for next five days of Imphal- West (2nd to 6th May, 2015)

There may be light to moderate rain upto Sunday then light rainfall thereafter. Sky will be partly cloudy to mainly cloudy with maximum temp. of 26.0 – 29.0 °C & minimum temp. 15.0 – 19.0 °C. Relative humidity may reach upto 98 % (max RH) & 44 % (min 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			
* Harvest rain water. * Construct proper drainage system in and around the crop field.			
Pre-kharif Rice	Tillering to panicle initiation stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
Kharif Rice	Land preparation for nursery		- For main kharif season the soil may be opened with tillers or disc ploughs. Seeds may be procured. - Prepare nursery bed of 700 m ² area, apply well decomposed FYM/ compost @ 1 t/ 700 m ² at final leveling. Seed rate is 60-65kg for a hectare. - Soaking and incubation of well filled disease free seeds may be started. Treat seeds with Nativo@2g/kg seed.
Rabi Maize	Cob formation to maturity stage		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
Soybean	Land preparation to sowing		Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sowing may be done at spacing of 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree Bean	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
Cucurbits	Vegetative to flowering and fruiting		- Construct proper staking system to support plant and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly also insecticides like Cypermethrin may be sprayed.
Colocassia	Planting		- Select upland/ slope area to avoid water stagnation problem during rainy days. Low land area requires more nutrients for higher yield.



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“Gramin Krishi Mausam Seva”

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Alocassia			<ul style="list-style-type: none"> - For home consumption or in small scale, plant Alocassia seedling (approximately 3-4 leaf stage (one month old) at 45 x 60cm or 30-50g cormet may also be used.
Bhindi/ French bean	Vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Avoid water logging.

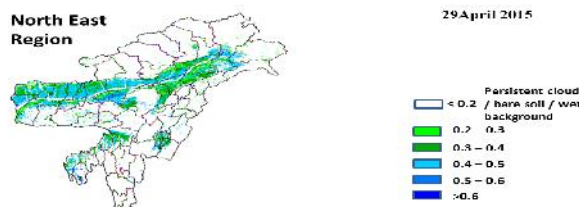
Animal Sciences

** Provide clean drinking water for birds and animals.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		- Bleaching powder may be spread near farm premises.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	<ul style="list-style-type: none"> - Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

Fisheries

- * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water



Agriculture vigour is good in valleys of hilly range of North-East states which covers part of Assam. NDVI values vary from 0.4-0.5. Normal NDVI conditions are observed all over NE region.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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MANIPUR BULLETIN

1st May, 2015

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 May, 2015 as below:

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During last three days sky was mainly clear to partly cloudy. **4.8 mm** rainfall was recorded during last three days. Maximum temperature range observed was 25.5 – 26.9 °C, range of minimum temperature observed was 14.5 – 15.9 °C, mean relative humidity observed in morning and afternoon were 88.3 % and 65.7 % respectively. The average wind speed range was 2.1 – 2.8 km/hr.

Weather forecast for next five days of Senapati (2nd to 6th May, 2015)

There may be light to moderate rain upto Sunday then light rainfall thereafter. Sky will be partly cloudy to mainly cloudy with maximum temp. of 23.0 – 28.0 °C & minimum temp. 13.0 – 17.0 °C. Relative humidity may reach upto 92 % (max RH) & 40 % (min RH). The average wind speed may be 2 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Harvest rain water.			
* Construct proper drainage system in and around the crop field.			
Pre-kharif Rice	Tillering to panicle initiation stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
Kharif Rice	Land preparation for nursery		- For main kharif season the soil may be opened with tillers or disc ploughs. Seeds may be procured. - Prepare nursery bed of 700 m ² area, apply well decomposed FYM/ compost @ 1 t/ 700 m ² at final leveling. Seed rate is 60-65kg for a hectare. - Soaking and incubation of well filled disease free seeds may be started. Treat seeds with Nativo@2g/kg seed.
Rabi Maize	Cob formation to maturity stage		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
Soybean	Land preparation to sowing		Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sowing may be done at spacing of 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree Bean	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
Cucurbits	Vegetative to flowering and fruiting		- Construct proper staking system to support plant and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly also insecticides like Cypermethrin may be sprayed.
Colocassia	Planting		- Select upland/ slope area to avoid water stagnation problem during rainy days. Low land area requires more nutrients for higher yield.



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“Gramin Krishi Mausam Seva”

			<ul style="list-style-type: none"> - Apply 25-30t FYM/sangam (@5-6 cartloads) during final land preparation or 10-20 days before transplanting it may be incorporated in the soil with $\frac{3}{4}$ of N, full dose of P and K (39kg Urea, 125kg SSP and 40kg MOP) per sangam. Remaining 13 kg Urea should be applied as top dress during earthing-up (shallow hoeing). - Use disease free quality planting material. Treat the corm/ cormets with either Carbendazim@ 2g/ kg seed or with Sixer (Carbendazim + Mencozeb) @2g/ kg seed. - 30-50g seed size may be sown at a spacing of 30-45cm seed to seed and 45-60cm row to row. Depth of the planting should not be more than 8cm. - Weed free zone/bed at the initial stage is required. Shallow hoeing at the time of earthing up for better development of corm and cormet is required.
Alocassia			<ul style="list-style-type: none"> - For home consumption or in small scale, plant Alocassia seedling (approximately 3-4 leaf stage (one month old) at 45 x 60cm or 30-50g cormet may also be used.
Bhindi/ French bean	Vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Avoid water logging.

Animal Sciences

** Provide clean drinking water for birds and animals.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		- Bleaching powder may be spread near farm premises.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	<ul style="list-style-type: none"> - Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

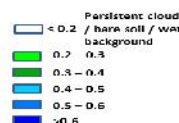
Fisheries

- * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water

North East Region



29 April 2015



Agriculture vigour is good in valleys of hilly range of North-East states which covers part of Assam. NDVI values vary from 0.4-0.5. Normal NDVI conditions are observed all over NE region.

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Scientist i/c, GKMS



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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

1st May, 2015

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 May, 2015 as below:

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Weather forecast for next five days of Tamenglong (2nd to 6th May, 2015)

There may be light to moderate rain upto Sunday then light rainfall thereafter. Sky will be partly cloudy to mainly cloudy with maximum temp. of 26.0 – 30.0 °C & minimum temp. 16.0 – 19.0 °C. Relative humidity may reach upto 97 % (max RH) & 48 % (min RH). The average wind speed may be 2 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Harvest rain water.			
* Construct proper drainage system in and around the crop field.			
Pre-kharif Rice	Tillering to panicle initiation stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
Kharif Rice	Land preparation for nursery		- For main kharif season the soil may be opened with tillers or disc ploughs. Seeds may be procured. - Prepare nursery bed of 700 m ² area, apply well decomposed FYM/ compost @ 1 t/ 700 m ² at final leveling. Seed rate is 60-65kg for a hectare. - Soaking and incubation of well filled disease free seeds may be started. Treat seeds with Nativo@2g/kg seed.
Rabi Maize	Cob formation to maturity stage		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
Soybean	Land preparation to sowing		Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sowing may be done at spacing of 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree Bean	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
Cucurbits	Vegetative to flowering and fruiting		- Construct proper staking system to support plant and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly also insecticides like Cypermethrin may be sprayed.
Colocassia	Planting		- Select upland/ slope area to avoid water stagnation problem during rainy days. Low land area requires more nutrients for higher yield.



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Bhindi/ French bean	Vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Avoid water logging.

Animal Sciences

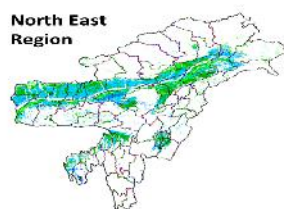
** Provide clean drinking water for birds and animals.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		- Bleaching powder may be spread near farm premises.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	<ul style="list-style-type: none"> - Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
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		F.M.D.	- Vaccinate against F.M.D.

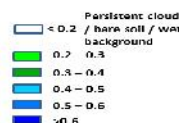
Fisheries

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North East Region



29 April 2015



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Scientist i/c, GKMS



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MANIPUR BULLETIN

1st May, 2015

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 May, 2015 as below:

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During last three days sky was mainly clear to partly cloudy. **4.8 mm** rainfall was recorded during last three days. Maximum temperature range observed was 25.5 – 26.9 °C, range of minimum temperature observed was 14.5 – 15.9 °C, mean relative humidity observed in morning and afternoon were 88.3 % and 65.7 % respectively. The average wind speed range was 2.1 – 2.8 km/hr.

Weather forecast for next five days of Thoubal (2nd to 6th May, 2015)

There may be light to moderate rain upto Sunday then light rainfall thereafter. Sky will be partly cloudy to mainly cloudy with maximum temp. of 26.0 – 30.0 °C & minimum temp. 15.0 – 18.0 °C. Relative humidity may reach upto 92 % (max RH) & 41 % (min RH). The average wind speed may be 4-6 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Harvest rain water.			
* Construct proper drainage system in and around the crop field.			
Pre-kharif Rice	Tillering to panicle initiation stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
Kharif Rice	Land preparation for nursery		- For main kharif season the soil may be opened with tillers or disc ploughs. Seeds may be procured. - Prepare nursery bed of 700 m ² area, apply well decomposed FYM/ compost @ 1 t/ 700 m ² at final leveling. Seed rate is 60-65kg for a hectare. - Soaking and incubation of well filled disease free seeds may be started. Treat seeds with Nativo@2g/kg seed.
Rabi Maize	Cob formation to maturity stage		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
Soybean	Land preparation to sowing		Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sowing may be done at spacing of 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree Bean	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
Cucurbits	Vegetative to flowering and fruiting		- Construct proper staking system to support plant and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly also insecticides like Cypermethrin may be sprayed.
Colocassia	Planting		- Select upland/ slope area to avoid water stagnation problem during rainy days. Low land area requires more nutrients for higher yield.



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



“Gramin Krishi Mausam Seva”

			<ul style="list-style-type: none"> - Apply 25-30t FYM/sangam (@5-6 cartloads) during final land preparation or 10-20 days before transplanting it may be incorporated in the soil with $\frac{3}{4}$ of N, full dose of P and K (39kg Urea, 125kg SSP and 40kg MOP) per sangam. Remaining 13 kg Urea should be applied as top dress during earthing-up (shallow hoeing). - Use disease free quality planting material. Treat the corm/ cormets with either Carbendazim@ 2g/ kg seed or with Sixer (Carbendazim + Mencozeb) @2g/ kg seed. - 30-50g seed size may be sown at a spacing of 30-45cm seed to seed and 45-60cm row to row. Depth of the planting should not be more than 8cm. - Weed free zone/bed at the initial stage is required. Shallow hoeing at the time of earthing up for better development of corm and cormet is required.
Alocassia			<ul style="list-style-type: none"> - For home consumption or in small scale, plant Alocassia seedling (approximately 3-4 leaf stage (one month old) at 45 x 60cm or 30-50g cormet may also be used.
Bhindi/ French bean	Vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Avoid water logging.

Animal Sciences

** Provide clean drinking water for birds and animals.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		- Bleaching powder may be spread near farm premises.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	<ul style="list-style-type: none"> - Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

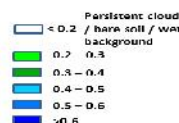
Fisheries

- * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water

North East Region



29 April 2015



Agriculture vigour is good in valleys of hilly range of North-East states which covers part of Assam. NDVI values vary from 0.4-0.5. Normal NDVI conditions are observed all over NE region.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

1st May, 2015

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 May, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th April, 2015)

During last three days sky was mainly clear to partly cloudy. **4.8 mm** rainfall was recorded during last three days. Maximum temperature range observed was 25.5 – 26.9 °C, range of minimum temperature observed was 14.5 – 15.9 °C, mean relative humidity observed in morning and afternoon were 88.3 % and 65.7 % respectively. The average wind speed range was 2.1 – 2.8 km/hr.

Weather forecast for next five days of Ukhrul (2nd to 6th May, 2015)

There may be light to moderate rain upto Sunday then light rainfall thereafter. Sky will be partly cloudy to mainly cloudy with maximum temp. of 23.0 – 28.0 °C & minimum temp. 13.0 – 17.0 °C. Relative humidity may reach upto 81 % (max RH) & 35 % (min RH). The average wind speed may be 4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Harvest rain water.			
* Construct proper drainage system in and around the crop field.			
Pre-kharif Rice	Tillering to panicle initiation stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
Kharif Rice	Land preparation for nursery		- For main kharif season the soil may be opened with tillers or disc ploughs. Seeds may be procured. - Prepare nursery bed of 700 m ² area, apply well decomposed FYM/ compost @ 1 t/ 700 m ² at final leveling. Seed rate is 60-65kg for a hectare. - Soaking and incubation of well filled disease free seeds may be started. Treat seeds with Nativo@2g/kg seed.
Rabi Maize	Cob formation to maturity stage		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
Soybean	Land preparation to sowing		Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sowing may be done at spacing of 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree Bean	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
Cucurbits	Vegetative to flowering and fruiting		- Construct proper staking system to support plant and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly also insecticides like Cypermethrin may be sprayed.
Colocassia	Planting		- Select upland/ slope area to avoid water stagnation problem during rainy days. Low land area requires more nutrients for higher yield.



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



“Gramin Krishi Mausam Seva”

			<ul style="list-style-type: none"> - Apply 25-30t FYM/sangam (@5-6 cartloads) during final land preparation or 10-20 days before transplanting it may be incorporated in the soil with $\frac{3}{4}$ of N, full dose of P and K (39kg Urea, 125kg SSP and 40kg MOP) per sangam. Remaining 13 kg Urea should be applied as top dress during earthing-up (shallow hoeing). - Use disease free quality planting material. Treat the corm/ cormets with either Carbendazim@ 2g/ kg seed or with Sixer (Carbendazim + Mencozeb) @2g/ kg seed. - 30-50g seed size may be sown at a spacing of 30-45cm seed to seed and 45-60cm row to row. Depth of the planting should not be more than 8cm. - Weed free zone/bed at the initial stage is required. Shallow hoeing at the time of earthing up for better development of corm and cormet is required.
Alocassia			<ul style="list-style-type: none"> - For home consumption or in small scale, plant Alocassia seedling (approximately 3-4 leaf stage (one month old) at 45 x 60cm or 30-50g cormet may also be used.
Bhindi/ French bean	Vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Avoid water logging.

Animal Sciences

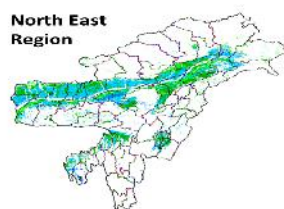
** Provide clean drinking water for birds and animals.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		- Bleaching powder may be spread near farm premises.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	<ul style="list-style-type: none"> - Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

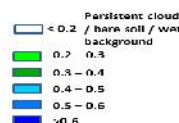
Fisheries

- * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water

North East Region



29 April 2015



Agriculture vigour is good in valleys of hilly range of North-East states which covers part of Assam. NDVI values vary from 0.4-0.5. Normal NDVI conditions are observed all over NE region.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

1st May, 2015

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 May, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th April, 2015)

During last three days sky was mainly clear to partly cloudy. **4.8 mm** rainfall was recorded during last three days. Maximum temperature range observed was 25.5 – 26.9 °C, range of minimum temperature observed was 14.5 – 15.9 °C, mean relative humidity observed in morning and afternoon were 88.3 % and 65.7 % respectively. The average wind speed range was 2.1 – 2.8 km/hr.

Weather forecast for next five days of Bishnupur (2nd to 6th May, 2015)

There may be light to moderate rain upto Sunday then light rainfall thereafter. Sky will be partly cloudy to mainly cloudy with maximum temp. of 27.0 – 30.0 °C & minimum temp. 15.0 – 19.0 °C. Relative humidity may reach upto 94 % (max RH) & 43 % (min RH). The average wind speed may be 4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Harvest rain water.			
* Construct proper drainage system in and around the crop field.			
Pre-kharif Rice	Tillering to panicle initiation stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
Kharif Rice	Land preparation for nursery		- For main kharif season the soil may be opened with tillers or disc ploughs. Seeds may be procured. - Prepare nursery bed of 700 m ² area, apply well decomposed FYM/ compost @ 1 t/ 700 m ² at final leveling. Seed rate is 60-65kg for a hectare. - Soaking and incubation of well filled disease free seeds may be started. Treat seeds with Nativo@2g/kg seed.
Rabi Maize	Cob formation to maturity stage		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
Soybean	Land preparation to sowing		Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sowing may be done at spacing of 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree Bean	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
Cucurbits	Vegetative to flowering and fruiting		- Construct proper staking system to support plant and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly also insecticides like Cypermethrin may be sprayed.
Colocassia	Planting		- Select upland/ slope area to avoid water stagnation problem during rainy days. Low land area requires more nutrients for higher yield.



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



“Gramin Krishi Mausam Seva”

			<ul style="list-style-type: none"> - Apply 25-30t FYM/sangam (@5-6 cartloads) during final land preparation or 10-20 days before transplanting it may be incorporated in the soil with $\frac{3}{4}$ of N, full dose of P and K (39kg Urea, 125kg SSP and 40kg MOP) per sangam. Remaining 13 kg Urea should be applied as top dress during earthing-up (shallow hoeing). - Use disease free quality planting material. Treat the corm/ cormets with either Carbendazim@ 2g/ kg seed or with Sixer (Carbendazim + Mencozeb) @2g/ kg seed. - 30-50g seed size may be sown at a spacing of 30-45cm seed to seed and 45-60cm row to row. Depth of the planting should not be more than 8cm. - Weed free zone/bed at the initial stage is required. Shallow hoeing at the time of earthing up for better development of corm and cormet is required.
Alocassia			<ul style="list-style-type: none"> - For home consumption or in small scale, plant Alocassia seedling (approximately 3-4 leaf stage (one month old) at 45 x 60cm or 30-50g cormet may also be used.
Bhindi/ French bean	Vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Avoid water logging.

Animal Sciences

** Provide clean drinking water for birds and animals.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		- Bleaching powder may be spread near farm premises.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	<ul style="list-style-type: none"> - Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

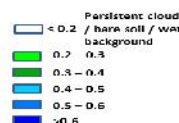
Fisheries

- * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water

North East Region



29 April 2015



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(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

1st May, 2015

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 2nd to 6th May, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th April, 2015)

During last three days sky was mainly clear to partly cloudy. **4.8 mm** rainfall was recorded during last three days. Maximum temperature range observed was 25.5 – 26.9 °C, range of minimum temperature observed was 14.5 – 15.9 °C, mean relative humidity observed in morning and afternoon were 88.3 % and 65.7 % respectively. The average wind speed range was 2.1 – 2.8 km/hr.

Weather forecast for next five days of Chandel (2nd to 6th May, 2015)

There may be light to moderate rain upto Sunday then light rainfall thereafter. Sky will be partly cloudy to mainly cloudy with maximum temp. of 25.0 – 30.0 °C & minimum temp. 15.0 – 18.0 °C. Relative humidity may reach upto 83 % (max RH) & 36 % (min RH). The average wind speed may be 5 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Harvest rain water.			
* Construct proper drainage system in and around the crop field.			
Pre-kharif Rice	Tillering to panicle initiation stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
Kharif Rice	Land preparation for nursery		- For main kharif season the soil may be opened with tillers or disc ploughs. Seeds may be procured. - Prepare nursery bed of 700 m ² area, apply well decomposed FYM/ compost @ 1 t/ 700 m ² at final leveling. Seed rate is 60-65kg for a hectare. - Soaking and incubation of well filled disease free seeds may be started. Treat seeds with Nativio@2g/kg seed.
Rabi Maize	Cob formation to maturity stage		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
Soybean	Land preparation to sowing		Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativio@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sowing may be done at spacing of 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree Bean	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
Cucurbits	Vegetative to flowering and fruiting		- Construct proper staking system to support plant and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly also insecticides like Cypermethrin may be sprayed.
Colocassia	Planting		- Select upland/ slope area to avoid water stagnation problem during rainy days. Low land area requires more nutrients for higher yield.



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



“Gramin Krishi Mausam Seva”

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Alocassia			<ul style="list-style-type: none"> - For home consumption or in small scale, plant Alocassia seedling (approximately 3-4 leaf stage (one month old) at 45 x 60cm or 30-50g cormet may also be used.
Bhindi/ French bean	Vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Avoid water logging.

Animal Sciences

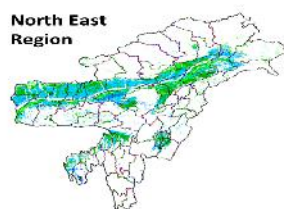
** Provide clean drinking water for birds and animals.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		- Bleaching powder may be spread near farm premises.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	<ul style="list-style-type: none"> - Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

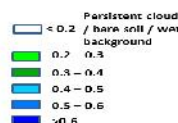
Fisheries

- * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
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North East Region



29 April 2015



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(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

1st May, 2015

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 May, 2015 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th April, 2015)</p> <p>During last three days sky was mainly clear to partly cloudy. 4.8 mm rainfall was recorded during last three days. Maximum temperature range observed was 25.5 – 26.9 °C, range of minimum temperature observed was 14.5 – 15.9 °C, mean relative humidity observed in morning and afternoon were 88.3 % and 65.7 % respectively. The average wind speed range was 2.1 – 2.8 km/hr.</p>	<p>Weather forecast for next five days of Churachandpur (2nd to 6th May, 2015)</p> <p>There may be light to moderate rain upto Sunday then light rainfall thereafter. Sky will be partly cloudy to mainly cloudy with maximum temp. of 24.0 – 29.0 °C & minimum temp. 14.0 – 18.0 °C. Relative humidity may reach upto 95 % (max RH) & 49 % (min RH). The average wind speed may be 3-4 km/ hr during next five days.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Harvest rain water.			
* Construct proper drainage system in and around the crop field.			
Pre-kharif Rice	Tillering to panicle initiation stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
Kharif Rice	Land preparation for nursery		- For main kharif season the soil may be opened with tillers or disc ploughs. Seeds may be procured. - Prepare nursery bed of 700 m ² area, apply well decomposed FYM/ compost @ 1 t/ 700 m ² at final leveling. Seed rate is 60-65kg for a hectare. - Soaking and incubation of well filled disease free seeds may be started. Treat seeds with Nativo@2g/kg seed.
Rabi Maize	Cob formation to maturity stage		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
Soybean	Land preparation to sowing		Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sowing may be done at spacing of 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree Bean	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
Cucurbits	Vegetative to flowering and fruiting		- Construct proper staking system to support plant and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly also insecticides like Cypermethrin may be sprayed.
Colocassia	Planting		- Select upland/ slope area to avoid water stagnation problem during rainy days. Low land area requires more nutrients for higher yield.



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“Gramin Krishi Mausam Seva”

			<ul style="list-style-type: none"> - Apply 25-30t FYM/sangam (@5-6 cartloads) during final land preparation or 10-20 days before transplanting it may be incorporated in the soil with $\frac{3}{4}$ of N, full dose of P and K (39kg Urea, 125kg SSP and 40kg MOP) per sangam. Remaining 13 kg Urea should be applied as top dress during earthing-up (shallow hoeing). - Use disease free quality planting material. Treat the corm/ cormets with either Carbendazim@ 2g/ kg seed or with Sixer (Carbendazim + Mencozeb) @2g/ kg seed. - 30-50g seed size may be sown at a spacing of 30-45cm seed to seed and 45-60cm row to row. Depth of the planting should not be more than 8cm. - Weed free zone/bed at the initial stage is required. Shallow hoeing at the time of earthing up for better development of corm and cormet is required.
Alocassia			<ul style="list-style-type: none"> - For home consumption or in small scale, plant Alocassia seedling (approximately 3-4 leaf stage (one month old) at 45 x 60cm or 30-50g cormet may also be used.
Bhindi/ French bean	Vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Avoid water logging.

Animal Sciences

** Provide clean drinking water for birds and animals.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		- Bleaching powder may be spread near farm premises.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	<ul style="list-style-type: none"> - Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

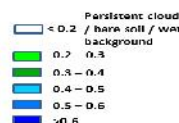
Fisheries

- * New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
- * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water

North East Region



29 April 2015



Agriculture vigour is good in valleys of hilly range of North-East states which covers part of Assam. NDVI values vary from 0.4-0.5. Normal NDVI conditions are observed all over NE region.

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