



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

10th June, 2014

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 11th to 15th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th June, 2014)

During past four days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 9th June. **4.9 mm** rainfall was recorded during past four days. Maximum temperature range observed was 32.5 – 34.5 °C, range of minimum temperature observed was 19.3 – 22.5 °C, mean relative humidity observed in morning and afternoon were 77.0 % and 64.0 % respectively. The average wind speed range was 3.1 – 4.4 km/hr.

Weather forecast for next five days of Chandel (11th to 15th June, 2014)

There may be light to moderate rains during next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 29.0 – 32.0 °C & minimum temp. 20.0 – 22.0 °C. Relative Humidity may reach a maximum of 95 % (maximum RH) & 64 % (minimum RH). The average wind speed may be 3-4 km/hr during next five days.

Monsoon Watch

The northern limit of monsoon continue to pass through 15.0°N/60.0°E, 15.0°N/70.0°E, Karwar, Agumbe, Medikeri, Chennai, 16.0°N/87.0°E, 18.0°N/90.0°E and 21.0°N/92.0°E.

Conditions are favourable for further advance of southwest monsoon into some more parts of Bay of Bengal and some parts of northeastern states during next 24 hours.

Main Weather Observations

Kalpana-1: Cloud imagery of 0530 hours IST shows convective clouds over some parts northeast India

Nowcast warnings (from 1130 hours IST to 1430hours of 10th, 2013)

Thunderstorm would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 13th to 17th June, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		- Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		- Rice field may be prepared for nursery raising. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		- Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		- Weeding may be done at 30 and 45 days after sowing of crop. - Thinning may be done.
Blackgram	Sowing to vegetative		-Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.



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			- Rodent management should be done in and around godowns.
Horticulture Crops			
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.
Cow pea/ yard long bean	Land preparation to sowing		- Land preparation for sowing these crops may be done.
Sem (Dolichos bean)	Nursery		<ul style="list-style-type: none"> - Separate nursery in pro-tray/ polybags may be raised. - For commercial growers while preparing land and support system, it must be constructed to trail the plant comfortably.
Animal Sciences			
<ul style="list-style-type: none"> - Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes. - For milch animals give concentrate feed, mineral mixture and vitamin. 			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	<ul style="list-style-type: none"> - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:			
- Encircle pond with net to avoid escape of fish during rainy days.			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

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



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MANIPUR BULLETIN

10th June, 2014

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 11th to 15th June, 14 as given below:

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During past four days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 9th June. **4.9 mm** rainfall was recorded during past four days. Maximum temperature range observed was 32.5 – 34.5 °C, range of minimum temperature observed was 19.3 – 22.5 °C, mean relative humidity observed in morning and afternoon were 77.0 % and 64.0 % respectively. The average wind speed range was 3.1 – 4.4 km/hr.

Weather forecast for next five days of Churachandpur (11th to 15th June, 2014)

There may be light to moderate rains during next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 19.0 – 21.0 °C. Relative Humidity may reach a maximum of 96 % (maximum RH) & 56 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Monsoon Watch

The northern limit of monsoon continue to pass through 15.0°N/60.0°E, 15.0°N/70.0°E, Karwar, Agumbe, Medikeri, Chennai, 16.0°N/87.0°E, 18.0°N/90.0°E and 21.0°N/92.0°E.

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Main Weather Observations

Kalpana-1: Cloud imagery of 0530 hours IST shows convective clouds over some parts northeast India

Nowcast warnings (from 1130 hours IST to 1430hours of 10th, 2013)

Thunderstorm would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 13th to 17th June, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		- Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		- Rice field may be prepared for nursery raising. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		- Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		- Weeding may be done at 30 and 45 days after sowing of crop. - Thinning may be done.
Blackgram	Sowing to vegetative		-Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.



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			- Rodent management should be done in and around godowns.
Horticulture Crops			
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.
Cow pea/ yard long bean	Land preparation to sowing		- Land preparation for sowing these crops may be done.
Sem (Dolichos bean)	Nursery		<ul style="list-style-type: none"> - Separate nursery in pro-tray/ polybags may be raised. - For commercial growers while preparing land and support system, it must be constructed to trail the plant comfortably.
Animal Sciences			
<ul style="list-style-type: none"> - Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes. - For milch animals give concentrate feed, mineral mixture and vitamin. 			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	<ul style="list-style-type: none"> - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:			
- Encircle pond with net to avoid escape of fish during rainy days.			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

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10th June, 2014

Imphal-East

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Weather forecast for next five days of Imphal-East (11th to 15th June, 2014)

There may be light to moderate rains during next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 19.0 – 21.0 °C. Relative Humidity may reach a maximum of 98 % (maximum RH) & 64 % (minimum RH). The average wind speed may be 0-2 km/hr during next five days.

Monsoon Watch

The northern limit of monsoon continue to pass through 15.0°N/60.0°E, 15.0°N/70.0°E, Karwar, Agumbe, Medikeri, Chennai, 16.0°N/87.0°E, 18.0°N/90.0°E and 21.0°N/92.0°E.

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Main Weather Observations

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Thunderstorm would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 13th to 17th June, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		- Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		- Rice field may be prepared for nursery raising. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		- Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		- Weeding may be done at 30 and 45 days after sowing of crop. - Thinning may be done.
Blackgram	Sowing to vegetative		-Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.



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Horticulture Crops			
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Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.
Cow pea/ yard long bean	Land preparation to sowing		- Land preparation for sowing these crops may be done.
Sem (Dolichos bean)	Nursery		<ul style="list-style-type: none"> - Separate nursery in pro-tray/ polybags may be raised. - For commercial growers while preparing land and support system, it must be constructed to trail the plant comfortably.
Animal Sciences			
<ul style="list-style-type: none"> - Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes. - For milch animals give concentrate feed, mineral mixture and vitamin. 			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	<ul style="list-style-type: none"> - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:			
- Encircle pond with net to avoid escape of fish during rainy days.			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
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		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

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



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

10th June, 2014

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 11th to 15th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th June, 2014)

During past four days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 9th June. **4.9 mm** rainfall was recorded during past four days. Maximum temperature range observed was 32.5 – 34.5 °C, range of minimum temperature observed was 19.3 – 22.5 °C, mean relative humidity observed in morning and afternoon were 77.0 % and 64.0 % respectively. The average wind speed range was 3.1 – 4.4 km/hr.

Weather forecast for next five days of Senapati (11th to 15th June, 2014)

There may be light to moderate rains during next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 27.0 – 30.0 °C & minimum temp. 17.0 – 20.0 °C. Relative Humidity may reach a maximum of 96 % (maximum RH) & 60 % (minimum RH). The average wind speed may be 2 km/hr during next five days.

Monsoon Watch

The northern limit of monsoon continue to pass through 15.0°N/60.0°E, 15.0°N/70.0°E, Karwar, Agumbe, Medikeri, Chennai, 16.0°N/87.0°E, 18.0°N/90.0°E and 21.0°N/92.0°E.

Conditions are favourable for further advance of southwest monsoon into some more parts of Bay of Bengal and some parts of northeastern states during next 24 hours.

Main Weather Observations

Kalpana-1: Cloud imagery of 0530 hours IST shows convective clouds over some parts northeast India

Nowcast warnings (from 1130 hours IST to 1430 hours of 10th, 2013)

Thunderstorm would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 13th to 17th June, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		- Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		- Rice field may be prepared for nursery raising. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		- Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		- Weeding may be done at 30 and 45 days after sowing of crop. - Thinning may be done.
Blackgram	Sowing to vegetative		-Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.



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



“Integrated Agromet Advisory Services”

			- Rodent management should be done in and around godowns.
Horticulture Crops			
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.
Cow pea/ yard long bean	Land preparation to sowing		- Land preparation for sowing these crops may be done.
Sem (Dolichos bean)	Nursery		<ul style="list-style-type: none"> - Separate nursery in pro-tray/ polybags may be raised. - For commercial growers while preparing land and support system, it must be constructed to trail the plant comfortably.
Animal Sciences			
<ul style="list-style-type: none"> - Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes. - For milch animals give concentrate feed, mineral mixture and vitamin. 			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	<ul style="list-style-type: none"> - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:			
- Encircle pond with net to avoid escape of fish during rainy days.			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

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



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

10th June, 2014

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 11th to 15th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th June, 2014)

During past four days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 9th June. **4.9 mm** rainfall was recorded during past four days. Maximum temperature range observed was 32.5 – 34.5 °C, range of minimum temperature observed was 19.3 – 22.5 °C, mean relative humidity observed in morning and afternoon were 77.0 % and 64.0 % respectively. The average wind speed range was 3.1 – 4.4 km/hr.

Weather forecast for next five days of Tamenglong (11th to 15th June, 2014)

There may be light to moderate rains during next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 29.0 – 32.0 °C & minimum temp. 21.0 – 23.0 °C. Relative Humidity may reach a maximum of 97 % (maximum RH) & 57 % (minimum RH). The average wind speed may be 2 km/hr during next five days.

Monsoon Watch

The northern limit of monsoon continue to pass through 15.0°N/60.0°E, 15.0°N/70.0°E, Karwar, Agumbe, Medikeri, Chennai, 16.0°N/87.0°E, 18.0°N/90.0°E and 21.0°N/92.0°E.

Conditions are favourable for further advance of southwest monsoon into some more parts of Bay of Bengal and some parts of northeastern states during next 24 hours.

Main Weather Observations

Kalpana-1: Cloud imagery of 0530 hours IST shows convective clouds over some parts northeast India

Nowcast warnings (from 1130 hours IST to 1430 hours of 10th, 2013)

Thunderstorm would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 13th to 17th June, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		- Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		- Rice field may be prepared for nursery raising. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		- Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		- Weeding may be done at 30 and 45 days after sowing of crop. - Thinning may be done.
Blackgram	Sowing to vegetative		-Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.



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“Integrated Agromet Advisory Services”

			- Rodent management should be done in and around godowns.
Horticulture Crops			
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.
Cow pea/ yard long bean	Land preparation to sowing		- Land preparation for sowing these crops may be done.
Sem (Dolichos bean)	Nursery		<ul style="list-style-type: none"> - Separate nursery in pro-tray/ polybags may be raised. - For commercial growers while preparing land and support system, it must be constructed to trail the plant comfortably.
Animal Sciences			
<ul style="list-style-type: none"> - Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes. - For milch animals give concentrate feed, mineral mixture and vitamin. 			
Name of the animal	Growth stage	Disease/infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	<ul style="list-style-type: none"> - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:			
- Encircle pond with net to avoid escape of fish during rainy days.			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

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



**ICAR Research Complex for N.E.H. Region
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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

10th June, 2014

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 11th to 15th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th June, 2014)

During past four days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 9th June. **4.9 mm** rainfall was recorded during past four days. Maximum temperature range observed was 32.5 – 34.5 °C, range of minimum temperature observed was 19.3 – 22.5 °C, mean relative humidity observed in morning and afternoon were 77.0 % and 64.0 % respectively. The average wind speed range was 3.1 – 4.4 km/hr.

Weather forecast for next five days of Thoubal (11th to 15th June, 2014)

There may be light to moderate rains during next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 19.0 – 21.0 °C. Relative Humidity may reach a maximum of 97 % (maximum RH) & 64 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Monsoon Watch

The northern limit of monsoon continue to pass through 15.0°N/60.0°E, 15.0°N/70.0°E, Karwar, Agumbe, Medikeri, Chennai, 16.0°N/87.0°E, 18.0°N/90.0°E and 21.0°N/92.0°E.

Conditions are favourable for further advance of southwest monsoon into some more parts of Bay of Bengal and some parts of northeastern states during next 24 hours.

Main Weather Observations

Kalpana-1: Cloud imagery of 0530 hours IST shows convective clouds over some parts northeast India

Nowcast warnings (from 1130 hours IST to 1430 hours of 10th, 2013)

Thunderstorm would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 13th to 17th June, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		- Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		- Rice field may be prepared for nursery raising. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		- Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		- Weeding may be done at 30 and 45 days after sowing of crop. - Thinning may be done.
Blackgram	Sowing to vegetative		-Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.



**ICAR Research Complex for N.E.H. Region
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“Integrated Agromet Advisory Services”

			- Rodent management should be done in and around godowns.
Horticulture Crops			
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.
Cow pea/ yard long bean	Land preparation to sowing		- Land preparation for sowing these crops may be done.
Sem (Dolichos bean)	Nursery		<ul style="list-style-type: none"> - Separate nursery in pro-tray/ polybags may be raised. - For commercial growers while preparing land and support system, it must be constructed to trail the plant comfortably.
Animal Sciences			
<ul style="list-style-type: none"> - Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes. - For milch animals give concentrate feed, mineral mixture and vitamin. 			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	<ul style="list-style-type: none"> - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:			
- Encircle pond with net to avoid escape of fish during rainy days.			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

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



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

10th June, 2014

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 11th to 15th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th June, 2014)

During past four days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 9th June. **4.9 mm** rainfall was recorded during past four days. Maximum temperature range observed was 32.5 – 34.5 °C, range of minimum temperature observed was 19.3 – 22.5 °C, mean relative humidity observed in morning and afternoon were 77.0 % and 64.0 % respectively. The average wind speed range was 3.1 – 4.4 km/hr.

Weather forecast for next five days of Ukhrul (11th to 15th June, 2014)

There may be light to moderate rains during next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 27.0 – 29.0 °C & minimum temp. 17.0 – 20.0 °C. Relative Humidity may reach a maximum of 95 % (maximum RH) & 61 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Monsoon Watch

The northern limit of monsoon continue to pass through 15.0°N/60.0°E, 15.0°N/70.0°E, Karwar, Agumbe, Medikeri, Chennai, 16.0°N/87.0°E, 18.0°N/90.0°E and 21.0°N/92.0°E.

Conditions are favourable for further advance of southwest monsoon into some more parts of Bay of Bengal and some parts of northeastern states during next 24 hours.

Main Weather Observations

Kalpana-1: Cloud imagery of 0530 hours IST shows convective clouds over some parts northeast India

Nowcast warnings (from 1130 hours IST to 1430hours of 10th, 2013)

Thunderstorm would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 13th to 17th June, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		- Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		- Rice field may be prepared for nursery raising. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		- Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		- Weeding may be done at 30 and 45 days after sowing of crop. - Thinning may be done.
Blackgram	Sowing to vegetative		-Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.



**ICAR Research Complex for N.E.H. Region
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“Integrated Agromet Advisory Services”

			- Rodent management should be done in and around godowns.
Horticulture Crops			
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.
Cow pea/ yard long bean	Land preparation to sowing		- Land preparation for sowing these crops may be done.
Sem (Dolichos bean)	Nursery		<ul style="list-style-type: none"> - Separate nursery in pro-tray/ polybags may be raised. - For commercial growers while preparing land and support system, it must be constructed to trail the plant comfortably.
Animal Sciences			
<ul style="list-style-type: none"> - Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes. - For milch animals give concentrate feed, mineral mixture and vitamin. 			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	<ul style="list-style-type: none"> - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:			
- Encircle pond with net to avoid escape of fish during rainy days.			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

(I. Meghachandra Singh)
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**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

10th June, 2014

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 11th to 15th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th June, 2014)

During past four days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 9th June. **4.9 mm** rainfall was recorded during past four days. Maximum temperature range observed was 32.5 – 34.5 °C, range of minimum temperature observed was 19.3 – 22.5 °C, mean relative humidity observed in morning and afternoon were 77.0 % and 64.0 % respectively. The average wind speed range was 3.1 – 4.4 km/hr.

Weather forecast for next five days of Bishnupur (11th to 15th June, 2014)

There may be light to moderate rains during next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 20.0 – 22.0 °C. Relative Humidity may reach a maximum of 96 % (maximum RH) & 60 % (minimum RH). The average wind speed may be 2 km/hr during next five days.

Monsoon Watch

The northern limit of monsoon continue to pass through 15.0°N/60.0°E, 15.0°N/70.0°E, Karwar, Agumbe, Medikeri, Chennai, 16.0°N/87.0°E, 18.0°N/90.0°E and 21.0°N/92.0°E.

Conditions are favourable for further advance of southwest monsoon into some more parts of Bay of Bengal and some parts of northeastern states during next 24 hours.

Main Weather Observations

Kalpana-1: Cloud imagery of 0530 hours IST shows convective clouds over some parts northeast India

Nowcast warnings (from 1130 hours IST to 1430hours of 10th, 2013)

Thunderstorm would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 13th to 17th June, 2013

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		- Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		- Rice field may be prepared for nursery raising. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		- Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		- Weeding may be done at 30 and 45 days after sowing of crop. - Thinning may be done.
Blackgram	Sowing to vegetative		-Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.



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			- Rodent management should be done in and around godowns.
Horticulture Crops			
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.
Cow pea/ yard long bean	Land preparation to sowing		- Land preparation for sowing these crops may be done.
Sem (Dolichos bean)	Nursery		<ul style="list-style-type: none"> - Separate nursery in pro-tray/ polybags may be raised. - For commercial growers while preparing land and support system, it must be constructed to trail the plant comfortably.
Animal Sciences			
<ul style="list-style-type: none"> - Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes. - For milch animals give concentrate feed, mineral mixture and vitamin. 			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	<ul style="list-style-type: none"> - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:			
- Encircle pond with net to avoid escape of fish during rainy days.			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
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