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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 20th 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 21st to 25th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17 th to 19 th June, 2014)	Weather forecast for next five days of Chandel (21 st to 25 th June, 2014)			
During past three days sky was mainly cloudy to cloudy but partly cloudy during morning hours of 18^{th} June. 58.2 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.8 - 30.5$ °C, range of minimum temperature observed was $21.9 - 23.0$ °C, mean relative humidity observed in morning and afternoon were 92.0 % and 78.7 % respectively. The average wind speed range was $1.2 - 2.1$ km/hr.	There may be moderate to heavy rains upto Monday. Sky may be mainly cloudy to cloudy with maximum temp. of $28.0 - 31.0$ °C & minimum temp. $21.0 - 23.0$ °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 96 % (minimum RH). The average wind speed may be 3-4 km/hr during next five days.			
Main Weather Oservations				

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

Weather warnings upto 22nd June, 2014

Isolated heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd to 27th June, 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
* Avoid water log	gging in the crop field	ls.	
Rice	Milky dough to grain filling stage in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Maintain water level at 5-8 cm. Drain/ pump out excess water from the crop field.
	Sowing of <i>Main</i> <i>Kharif</i> rice		 Use certified seeds for sowing. Rate: 60 kg/ ha. Treat seeds with Tricyclazole 75WP or Carbendazim @ 2g/ kg of seed. Soak seeds for 24hrs then incubate before sowing. Rice field may be prepared for nursery rising before 20-25 days of sowing.
Maize	<i>Kharif Maize:</i> vegetative		 Weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha. When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Soybean / Groundnut	Vegetative		 Earthing-up and thinning may be done after rain at 30 to 40 days after sowing of crop. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram	Sowing to vegetative		 -Weeding may be done after rains 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.
Rice bean	Sowing to early vegetative		 Seed rate: 20 kg/ha. Sow by dibbling (row to row spacing of 45cm).
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.
Horticulture Cro	ps		
Cauliflower (Early)	Land preparation to nursery sowing		- Prepare raised nursery bed with temporary rain shed and drain out excess water near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Till germination the cover bed with paddy straw.





Cucurbits	Fruiting		- Avoid the fruits to touch soil by staking or with the support of dried twigs.
Lime/ Lemon and papaya	Transplanting		- After rains in fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area or frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Tree bean	Transplanting		 Prepare the pit of size 3x3x3 feet in upland area after rains. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. Transplant 1 ½ to 2 yrs old healthy seedling. 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.
Animal Scien	ces		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when	Endoparasites	 De-worm using Piperazine citrate. Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)	Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
~		coli bacillosis ?	Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
	required)	Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Mithun	required)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Deworming	Deworm with Tolzan F @ 90cc/ 300 kg b.wt.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:			
- Encircle pon	d with net to avoid	escape of fish durin	g 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.
Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30- 40% of the field may be converted into trench/pond for fish culture.

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 20th 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 21st to 25th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17 th to 19 th June, 2014)	$\frac{\text{Weather forecast for next five days of Churachandpur}}{(21^{\text{st}} \text{ to } 25^{\text{th}} \text{ June, } 2014)}$			
During past three days sky was mainly cloudy to cloudy but partly cloudy during morning hours of 18^{th} June. 58.2 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.8 - 30.5$ °C, range of minimum temperature observed was $21.9 - 23.0$ °C, mean relative humidity observed in morning and afternoon were 92.0 % and 78.7 % respectively. The average wind speed range was $1.2 - 2.1$ km/hr.	There may be moderate to heavy rains upto Monday. Sky may be mainly cloudy to cloudy with maximum temp. of $27.0 - 30.0$ °C & minimum temp. $20.0 - 23.0$ °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 97 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.			
Main Weather Oservations				

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

Weather warnings upto 22nd June, 2014

Isolated heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd to 27th June, 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	I I		
* Avoid water log	gging in the crop field	s.	
Rice	Milky dough to grain filling stage in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Maintain water level at 5-8 cm. Drain/ pump out excess water from the crop field.
	Sowing of <i>Main</i> <i>Kharif</i> rice		 Use certified seeds for sowing. Rate: 60 kg/ ha. Treat seeds with Tricyclazole 75WP or Carbendazim @ 2g/ kg of seed. Soak seeds for 24hrs then incubate before sowing. Rice field may be prepared for nursery rising before 20-25 days of sowing.
Maize	<i>Kharif Maize:</i> vegetative		 Weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha. When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Soybean / Groundnut	Vegetative		 Earthing-up and thinning may be done after rain at 30 to 40 days after sowing of crop. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram	Sowing to vegetative		 Weeding may be done after rains 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.
Rice bean	Sowing to early vegetative		 Seed rate: 20 kg/ha. Sow by dibbling (row to row spacing of 45cm).
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.
Horticulture Cro	ps		
Cauliflower (Early)	Land preparation to nursery sowing		- Prepare raised nursery bed with temporary rain shed and drain out excess water near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Till germination the cover bed with paddy straw.





Cucurbits	Fruiting		- Avoid the fruits to touch soil by staking or with the support of dried twigs.
Lime/ Lemon	Transplanting	- After rains in fertile upland area, prepare pits of size 2x2x2 fee	
and papaya			transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area or frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Tree bean	Transplanting		 Prepare the pit of size 3x3x3 feet in upland area after rains. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. Transplant 1 ½ to 2 yrs old healthy seedling. 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.
Animal Scien	à		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when	Endoparasites	 De-worm using Piperazine citrate. Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)	Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
		coli bacillosis ?	Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Sheep/ Goat	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
	required)	B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
	required)	Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Above 3 months of Buffalo/ age (as and when		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Mithun	required)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Deworming	Deworm with Tolzan F @ 90cc/ 300 kg b.wt.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:			
- Encircle pon	d with net to avoid	escape of fish durin	g 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.
Paddy cum	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-
fish culture			40% of the field may be converted into trench/pond for fish culture.

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MANIPUR BULLETIN 20th June, 2014

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 21st to 25th June, 14 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal-East			
Imphal - West (17 th to 19 th June, 2014)	$(21^{\text{st}} \text{ to } 25^{\text{th}} \text{ June, } 2014)$			
During past three days sky was mainly cloudy to cloudy but	There may be moderate to heavy rains upto Monday. Sky			
partly cloudy during morning hours of 18 th June. 58.2 mm	may be mainly cloudy to cloudy with maximum temp. of			
rainfall was recorded during past three days. Maximum	28.0 – 30.0 °C & minimum temp. 20.0 – 23.0 °C. Relative			
temperature range observed was 27.8 - 30.5 °C, range of	Humidity may reach a maximum of 100 % (maximum			
minimum temperature observed was 21.9 - 23.0 °C, mean	RH) & 96 % (minimum RH). The average wind speed may			
relative humidity observed in morning and afternoon were	be 0-2 km/hr during next five days.			
92.0 % and 78.7 % respectively. The average wind speed				
range was $1.2 - 2.1$ km/hr.				
Main Weather Oservations				

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Weather warnings upto 22nd June, 2014

Isolated heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd to 27th June, 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Avoid water log	gging in the crop field	s.	
Rice	Milky dough to grain filling stage in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Maintain water level at 5-8 cm. Drain/ pump out excess water from the crop field.
	Sowing of <i>Main</i> <i>Kharif</i> rice		 Use certified seeds for sowing. Rate: 60 kg/ ha. Treat seeds with Tricyclazole 75WP or Carbendazim @ 2g/ kg of seed. Soak seeds for 24hrs then incubate before sowing. Rice field may be prepared for nursery rising before 20-25 days of sowing.
Maize	<i>Kharif Maize:</i> vegetative		 Weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha. When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Soybean / Groundnut	Vegetative		 Earthing-up and thinning may be done after rain at 30 to 40 days after sowing of crop. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram	Sowing to vegetative		 Weeding may be done after rains 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.
Rice bean	Sowing to early vegetative		Seed rate: 20 kg/ha.Sow by dibbling (row to row spacing of 45cm).
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.
Horticulture Cro	ps		
Cauliflower (Early)	Land preparation to nursery sowing		- Prepare raised nursery bed with temporary rain shed and drain out excess water near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Till germination the cover bed with paddy straw.





Cucurbits	Fruiting		- Avoid the fruits to touch soil by staking or with the support of dried twigs.
Lime/ Lemon	Transplanting	- After rains in fertile upland area, prepare pits of size 2x2x2 feet t	
and papaya			transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area or frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Tree bean	Transplanting		 Prepare the pit of size 3x3x3 feet in upland area after rains.
free beam	Transplanting		 Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. Transplant 1 ½ to 2 yrs old healthy seedling. 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.
Animal Scien	ces		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when	Endoparasites	 De-worm using Piperazine citrate. Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)	Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
		coli bacillosis ?	Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Sheep/ Goat	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
	required)	B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
	required)	Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle /Above 3 months ofBuffalo/age (as and when		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Mithun	required)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Deworming	Deworm with Tolzan F @ 90cc/ 300 kg b.wt.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:			
- Encircle pon	d with net to avoid	escape of fish durin	g 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.
Paddy cum	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-
fish culture			40% of the field may be converted into trench/pond for fish culture.

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MANIPUR BULLETIN 20th June, 2014

Imphal-West

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free beam	Transplanting		 Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. Transplant 1 ½ to 2 yrs old healthy seedling. 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.
Animal Scien	ces		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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	required)	Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
		coli bacillosis ?	Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Sheep/ Goat	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
	required)	B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
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		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle /Above 3 months ofBuffalo/age (as and when		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Mithun	required)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Deworming	Deworm with Tolzan F @ 90cc/ 300 kg b.wt.
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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.
Paddy cum	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-
fish culture			40% of the field may be converted into trench/pond for fish culture.

E-mail: agromet_mnp@yahoo.co.uk



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 20th 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 21st to 25th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17 th to 19 th June, 2014)	$\frac{\text{Weather forecast for next five days of Senapati}}{(21^{\text{st}} \text{ to } 25^{\text{th}} \text{ June, } 2014)}$			
During past three days sky was mainly cloudy to cloudy but partly cloudy during morning hours of 18^{th} June. 58.2 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.8 - 30.5$ °C, range of minimum temperature observed was $21.9 - 23.0$ °C, mean relative humidity observed in morning and afternoon were 92.0 % and 78.7 % respectively. The average wind speed range was $1.2 - 2.1$ km/hr.	There may be moderate to heavy rains upto Monday. Sky may be mainly cloudy to cloudy with maximum temp. of $26.0 - 29.0$ °C & minimum temp. $18.0 - 21.0$ °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 95 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.			
Main Weather Oservations				

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

Weather warnings upto 22nd June, 2014

Isolated heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd to 27th June, 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Avoid water log	gging in the crop field	s.	
Rice	Milky dough to grain filling stage in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Maintain water level at 5-8 cm. Drain/ pump out excess water from the crop field.
	Sowing of <i>Main</i> <i>Kharif</i> rice		 Use certified seeds for sowing. Rate: 60 kg/ ha. Treat seeds with Tricyclazole 75WP or Carbendazim @ 2g/ kg of seed. Soak seeds for 24hrs then incubate before sowing. Rice field may be prepared for nursery rising before 20-25 days of sowing.
Maize	<i>Kharif Maize:</i> vegetative		 Weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha. When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Soybean / Groundnut	Vegetative		 Earthing-up and thinning may be done after rain at 30 to 40 days after sowing of crop. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram	Sowing to vegetative		 Weeding may be done after rains 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.
Rice bean	Sowing to early vegetative		Seed rate: 20 kg/ha.Sow by dibbling (row to row spacing of 45cm).
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.
Horticulture Cro	ps		
Cauliflower (Early)	Land preparation to nursery sowing		- Prepare raised nursery bed with temporary rain shed and drain out excess water near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Till germination the cover bed with paddy straw.

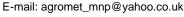




Cucurbits	Fruiting		- Avoid the fruits to touch soil by staking or with the support of dried twigs.
Lime/ Lemon	Transplanting	- After rains in fertile upland area, prepare pits of size 2x2x2	
and papaya			transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area or frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Tree bean	Transplanting		 Prepare the pit of size 3x3x3 feet in upland area after rains. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. Transplant 1 ½ to 2 yrs old healthy seedling. 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.
Animal Scien		D: /	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when	Endoparasites	 De-worm using Piperazine citrate. Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)	Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
		coli bacillosis ?	Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Sheep/ Goat	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
	required)	B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Pig Above 3 months of age (as and when		Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
	required)	Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Above 3 months of Buffalo/ age (as and when		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Mithun	required)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Deworming	Deworm with Tolzan F @ 90cc/ 300 kg b.wt.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:			
- Encircle pon	d with net to avoid	escape of fish durin	g 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.
Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30- 40% of the field may be converted into trench/pond for fish culture.

HIDDRE 241

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





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 20th 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 21st to 25th June, 14 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong			
Imphal - West (17 th to 19 th June, 2014)	$(21^{\text{st}} \text{ to } 25^{\text{th}} \text{ June, } 2014)$			
During past three days sky was mainly cloudy to cloudy but	There may be moderate to heavy rains upto Monday. Sky			
partly cloudy during morning hours of 18th June. 58.2 mm	may be mainly cloudy to cloudy with maximum temp. of			
rainfall was recorded during past three days. Maximum	27.0 – 31.0 °C & minimum temp. 21.0 – 24.0 °C. Relative			
temperature range observed was 27.8 - 30.5 °C, range of	Humidity may reach a maximum of 99 % (maximum RH)			
minimum temperature observed was 21.9 - 23.0 °C, mean	& 97 % (minimum RH). The average wind speed may be			
relative humidity observed in morning and afternoon were	2-3 km/hr during next five days.			
92.0 % and 78.7 % respectively. The average wind speed				
range was $1.2 - 2.1$ km/hr.				
Main Weather Oservations				

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

Weather warnings upto 22nd June, 2014

Isolated heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd to 27th June, 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	I I		
* Avoid water log	gging in the crop field	s.	
Rice	Milky dough to grain filling stage in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Maintain water level at 5-8 cm. Drain/ pump out excess water from the crop field.
	Sowing of <i>Main</i> <i>Kharif</i> rice		 Use certified seeds for sowing. Rate: 60 kg/ ha. Treat seeds with Tricyclazole 75WP or Carbendazim @ 2g/ kg of seed. Soak seeds for 24hrs then incubate before sowing. Rice field may be prepared for nursery rising before 20-25 days of sowing.
Maize	<i>Kharif Maize:</i> vegetative		 Weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha. When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Soybean / Groundnut	Vegetative		 Earthing-up and thinning may be done after rain at 30 to 40 days after sowing of crop. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram	Sowing to vegetative		 -Weeding may be done after rains 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.
Rice bean	Sowing to early vegetative		Seed rate: 20 kg/ha.Sow by dibbling (row to row spacing of 45cm).
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.
Horticulture Cro	ps		
Cauliflower (Early)	Land preparation to nursery sowing		- Prepare raised nursery bed with temporary rain shed and drain out excess water near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Till germination the cover bed with paddy straw.





Cucurbits	Fruiting		- Avoid the fruits to touch soil by staking or with the support of dried twigs.
Lime/ Lemon and papaya	Transplanting		- After rains in fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area or frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Tree bean	Transplanting		 Prepare the pit of size 3x3x3 feet in upland area after rains. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. Transplant 1 ½ to 2 yrs old healthy seedling. 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.
Animal Scien	ces		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when	Endoparasites	 De-worm using Piperazine citrate. Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)	Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
~ (~)		coli bacillosis ?	Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
	required)	Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Mithun	required)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Deworming	Deworm with Tolzan F @ 90cc/ 300 kg b.wt.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:			
- Encircle pon	d with net to avoid	escape of fish durin	g 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.
Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field may be converted into trench/pond for fish culture.

HIP-164

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 20th 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 21st to 25th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17 th to 19 th June, 2014)	$\frac{\text{Weather forecast for next five days of Thoubal}}{(21^{\text{st}} \text{ to } 25^{\text{th}} \text{ June, } 2014)}$			
During past three days sky was mainly cloudy to cloudy but partly cloudy during morning hours of 18^{th} June. 58.2 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.8 - 30.5$ °C, range of minimum temperature observed was $21.9 - 23.0$ °C, mean relative humidity observed in morning and afternoon were 92.0 % and 78.7 % respectively. The average wind speed range was $1.2 - 2.1$ km/hr.	There may be moderate to heavy rains upto Monday. Sky may be mainly cloudy to cloudy with maximum temp. of $27.0 - 30.0$ °C & minimum temp. $20.0 - 23.0$ °C. Relative Humidity may reach a maximum of 100 % (maximum RH) & 97 % (minimum RH). The average wind speed may be 0-2 km/hr during next five days.			
Main Weather Oservations				

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

Weather warnings upto 22nd June, 2014

Isolated heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd to 27th June, 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	I I		
* Avoid water log	gging in the crop field	s.	
Rice	Milky dough to grain filling stage in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Maintain water level at 5-8 cm. Drain/ pump out excess water from the crop field.
	Sowing of <i>Main</i> <i>Kharif</i> rice		 Use certified seeds for sowing. Rate: 60 kg/ ha. Treat seeds with Tricyclazole 75WP or Carbendazim @ 2g/ kg of seed. Soak seeds for 24hrs then incubate before sowing. Rice field may be prepared for nursery rising before 20-25 days of sowing.
Maize	<i>Kharif Maize:</i> vegetative		 Weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha. When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Soybean / Groundnut	Vegetative		 Earthing-up and thinning may be done after rain at 30 to 40 days after sowing of crop. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram	Sowing to vegetative		 Weeding may be done after rains 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.
Rice bean	Sowing to early vegetative		 Seed rate: 20 kg/ha. Sow by dibbling (row to row spacing of 45cm).
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.
Horticulture Cro	ps		
Cauliflower (Early)	Land preparation to nursery sowing		- Prepare raised nursery bed with temporary rain shed and drain out excess water near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Till germination the cover bed with paddy straw.

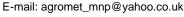




Cucurbits	Fruiting		- Avoid the fruits to touch soil by staking or with the support of dried twigs.
Lime/ Lemon and papaya	Transplanting		- After rains in fertile upland area, prepare pits of size $2x2x2$ feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area or frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Tree bean	Transplanting		 Prepare the pit of size 3x3x3 feet in upland area after rains. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. Transplant 1 ½ to 2 yrs old healthy seedling. 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.
Animal Scien	ces		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	 De-worm using Piperazine citrate. Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)	Coccidiosis coli bacillosis ?	 As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water. Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
	required)	Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Mithun	required)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Deworming	Deworm with Tolzan F @ 90cc/ 300 kg b.wt.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:	I.	L	
	d with net to avoid	escape of fish durin	g rainy days.
Carp culture		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.
Paddy cum	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-
fish culture			40% of the field may be converted into trench/pond for fish culture.

HIP DERI

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





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 20th 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 21st to 25th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17 th to 19 th June, 2014)	$\frac{\text{Weather forecast for next five days of Ukhrul}}{(21^{\text{st}} \text{ to } 25^{\text{th}} \text{ June, } 2014)}$			
During past three days sky was mainly cloudy to cloudy but partly cloudy during morning hours of 18^{th} June. 58.2 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.8 - 30.5$ °C, range of minimum temperature observed was $21.9 - 23.0$ °C, mean relative humidity observed in morning and afternoon were 92.0 % and 78.7 % respectively. The average wind speed range was $1.2 - 2.1$ km/hr.	There may be moderate to heavy rains upto Monday. Sky may be mainly cloudy to cloudy with maximum temp. of $26.0 - 28.0$ °C & minimum temp. $17.0 - 19.0$ °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 94 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.			
Main Weather Oservations				

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

Weather warnings upto 22nd June, 2014

Isolated heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd to 27th June, 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	I I		
* Avoid water log	gging in the crop field	s.	
Rice	Milky dough to grain filling stage in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Maintain water level at 5-8 cm. Drain/ pump out excess water from the crop field.
	Sowing of <i>Main</i> <i>Kharif</i> rice		 Use certified seeds for sowing. Rate: 60 kg/ ha. Treat seeds with Tricyclazole 75WP or Carbendazim @ 2g/ kg of seed. Soak seeds for 24hrs then incubate before sowing. Rice field may be prepared for nursery rising before 20-25 days of sowing.
Maize	<i>Kharif Maize:</i> vegetative		 Weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha. When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Soybean / Groundnut	Vegetative		 Earthing-up and thinning may be done after rain at 30 to 40 days after sowing of crop. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram	Sowing to vegetative		 Weeding may be done after rains 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.
Rice bean	Sowing to early vegetative		 Seed rate: 20 kg/ha. Sow by dibbling (row to row spacing of 45cm).
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.
Horticulture Cro	ps		
Cauliflower (Early)	Land preparation to nursery sowing		- Prepare raised nursery bed with temporary rain shed and drain out excess water near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Till germination the cover bed with paddy straw.





Cucurbits	Fruiting		- Avoid the fruits to touch soil by staking or with the support of dried twigs.
Lime/ Lemon	Transplanting	- After rains in fertile upland area, prepare pits of size 2x2x2 fee	
and papaya			transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area or frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Tree bean	Transplanting		 Prepare the pit of size 3x3x3 feet in upland area after rains.
			 Frepare the pit of size 3x3x3 feet in upfaltd area after fails. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. Transplant 1 ½ to 2 yrs old healthy seedling. 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.
Animal Scien			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when	Endoparasites	 De-worm using Piperazine citrate. Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)	Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
		coli bacillosis ?	Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Sheep/ Goat	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
	required)	B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
PigAbove 3 months of age (as and when		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
	required)	Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Above 3 months of Buffalo/ age (as and when		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Mithun	required)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Deworming	Deworm with Tolzan F @ 90cc/ 300 kg b.wt.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:			
- Encircle pon	d with net to avoid	escape of fish durin	ig 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.
Paddy cum	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-
fish culture			40% of the field may be converted into trench/pond for fish culture.

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 20th 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 21st to 25th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17 th to 19 th June, 2014)	<u>Weather forecast for next five days of Bishnupur</u> (21^{st} to 25^{th} June, 2014)			
During past three days sky was mainly cloudy to cloudy but partly cloudy during morning hours of 18^{th} June. 58.2 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.8 - 30.5$ °C, range of minimum temperature observed was $21.9 - 23.0$ °C, mean relative humidity observed in morning and afternoon were 92.0 % and 78.7 % respectively. The average wind speed range was $1.2 - 2.1$ km/hr.	There may be moderate to heavy rains upto Monday. Sky may be mainly cloudy to cloudy with maximum temp. of $28.0 - 31.0$ °C & minimum temp. $21.0 - 23.0$ °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 97 % (minimum RH). The average wind speed may be 0-2 km/hr during next five days.			
Main Weather Oservations				

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

Weather warnings upto 22nd June, 2014

Isolated heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd to 27th June, 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	I I		
* Avoid water log	gging in the crop field	s.	
Rice	Milky dough to grain filling stage in early kharif rice		 Hand weeding may be done or use rotatory weeder for weeding. Maintain water level at 5-8 cm. Drain/ pump out excess water from the crop field.
	Sowing of <i>Main</i> <i>Kharif</i> rice		 Use certified seeds for sowing. Rate: 60 kg/ ha. Treat seeds with Tricyclazole 75WP or Carbendazim @ 2g/ kg of seed. Soak seeds for 24hrs then incubate before sowing. Rice field may be prepared for nursery rising before 20-25 days of sowing.
Maize	<i>Kharif Maize:</i> vegetative		 Weeding may be done after rain by hand or apply Simazine @ 0.75 kg a.i./ ha. When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Soybean / Groundnut	Vegetative		 Earthing-up and thinning may be done after rain at 30 to 40 days after sowing of crop. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram	Sowing to vegetative		 Weeding may be done after rains 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.
Rice bean	Sowing to early vegetative		 Seed rate: 20 kg/ha. Sow by dibbling (row to row spacing of 45cm).
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.
Horticulture Cro	ps		
Cauliflower (Early)	Land preparation to nursery sowing		- Prepare raised nursery bed with temporary rain shed and drain out excess water near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Till germination the cover bed with paddy straw.





Cucurbits	Fruiting		- Avoid the fruits to touch soil by staking or with the support of dried twigs.
Lime/ Lemon and papaya	Transplanting	- After rains in fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Avoid water logging area or frost prone or area where high wind speed is experienced. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.	
Tree bean	Transplanting		 Prepare the pit of size 3x3x3 feet in upland area after rains. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. Transplant 1 ½ to 2 yrs old healthy seedling. 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.
Animal Scien	ces		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
5	All susceptible age groups (as and when	Endoparasites	 De-worm using Piperazine citrate. Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)	Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
		coli bacillosis ?	Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Sheep/ Goat Above 3 months of age (as and when		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
	Above 3 months of age (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
	required)	Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Buffalo/ age	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
	required)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
		Deworming	Deworm with Tolzan F @ 90cc/ 300 kg b.wt.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:			
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•	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.
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	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
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	-	Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30- 40% of the field may be converted into trench/pond for fish culture.