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 30<sup>th</sup> September, 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 1<sup>st</sup> to 5<sup>th</sup> October, 2014 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur
Imphal - West (26 <sup>th</sup> to 29 <sup>th</sup> September, 2014)	(1 <sup>st</sup> to 5 <sup>th</sup> October, 2014)
During past four days sky was mainly cloudy to cloudy upto $27^{\text{th}}$ then mainly clear to partly cloudy on $28^{\text{th}} \& 29^{\text{th}}$ Sept. <b>8.2 mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $25.8 - 28.7$ °C, range of minimum temperature observed was $18.6 - 20.4$ °C, mean relative humidity observed in morning and afternoon were 90.0 % and 77.8 % respectively. The average wind speed range was $1.4 - 2.8$ km/hr.	There may be light rain during Thursday to Saturday. Sky may be mainly clear to partly cloudy with maximum temp. of 28.0 – 30.0 °C & minimum temp. 18.0 – 19.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 78 % (minimum RH). The average wind speed may be 4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Dough stage to grain filling		<ul> <li>Water level should be maintained at 5cm level upto dough stage for better growth and development.</li> <li>Regular monitoring of pest and disease infestation is essential.</li> </ul>
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to maturity	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Pod formation		- Hand weeding should be done.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to		Weeding may be done.
	fruiting	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
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 Crops		1	<u> </u>
Ginger/ Turmeric	Rhizome initiation stage	leaf blotch and leaf spot	<ul> <li>Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>





# "Integrated Agromet Advisory Services"

Mango		Appearance of		At this stage, apply 50g Urea + $100g$ DAP + $40g$ MOP in the soil $1\frac{1}{2}$	
		new flush in		feet away from the trunk or Planth growth promoting rhizobium bacteria	
		bearing trees		(PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10	
		C		litre cow urine $+ 2$ kg jiggery $+ 2$ kg of pulse grain flour $+ 1$ kg of live	
				forest soil in 200 litres of water. Ferment for 5-7 days. Stir the	
				formulation three times a day. Use it for 1 acre with irrigation water.	
Animal Sc	iences			· · · ·	
Name of the a	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
- Provide cle	an drink	ing water to birds a	nd animals. Avoid water	logging around the sheds as it may help in mosquito breeding.	
- Take up me	easures t	o reduce flies and m	osquitoes population in a	nd around the birds/ animals sheds.	
Poultry		All susceptible age	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with	
		groups (as and when	1	glucose.	
		required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Sheep/ Goa	ıt	Above 3 months of	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
-		age (as and when		pregnancy.	
		required)			
Pig		Above 3 months of	Coccidial infection	Of loxacine/ Ornidazole $(O_2)$ tab twice daily for 5 days.	
		age (as and when	(Diarrhea)		
		required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week	
				while brushing the animal.	
Cattle / Buff	alo/	Above 3 months of	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
Mithun		age (as and when required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp/	Grow	-	- Ponds should be free	from unwanted vegetation and insects and water depth should be	
Catfish	out/		maintained at 1.0-1.5m.		
culture	ture nurseries		- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
			<ul> <li>Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> </ul>		
		- 8000-10,000 fingerlin	- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.		
Paddy	Water	· management	- Maintained 1.0 m wa	ter depth of the trenches in paddy field.	
cum fish			- Provide rice bran and	I mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	
culture			application.		

### SMS:

Lakliba Sagolshendagi Thangja faoba nong khara chuba yai. Phou pambi amadi mana kngbi tourakadi eeshing litre 15da 15ml Hexaclonazole natraga 30-40g Carbendazim yanlaga chaithokpiyu. Yengi thaknaba eeshing litre amada 1g Ventrimizole yanlaga numit 3 pithakpiyu.

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



### "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 30<sup>th</sup> September, 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 1<sup>st</sup> to 5<sup>th</sup> October, 2014 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (26 <sup>th</sup> to 29 <sup>th</sup> September, 2014)	(1 <sup>st</sup> to 5 <sup>th</sup> October, 2014)
During past four days sky was mainly cloudy to cloudy upto $27^{th}$ then mainly clear to partly cloudy on $28^{th} \& 29^{th}$ Sept. <b>8.2 mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $25.8 - 28.7$ °C, range of minimum temperature observed was $18.6 - 20.4$ °C, mean relative humidity observed in morning and afternoon were 90.0 % and 77.8 % respectively. The average wind speed range was $1.4 - 2.8$ km/hr.	There may be light rain during Thursday to Saturday. Sky may be mainly clear to partly cloudy with maximum temp. of $29.0 - 31.0$ °C & minimum temp. $18.0 - 20.0$ °C. Relative humidity may reach a maximum of 98 % (maximum RH) & 75 % (minimum RH). The average wind speed may be 4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	·····		
Kharif Rice	Dough stage to grain filling		<ul> <li>Water level should be maintained at 5cm level upto dough stage for better growth and development.</li> <li>Regular monitoring of pest and disease infestation is essential.</li> </ul>
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to maturity	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Pod formation		- Hand weeding should be done.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to		Weeding may be done.
_	fruiting	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
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 Crops	<u>.</u>	1	<u> </u>
Ginger/ Turmeric	Rhizome initiation stage	leaf blotch and leaf spot	<ul> <li>Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>





# "Integrated Agromet Advisory Services"

Mango Appearance of new flush in bearing trees			At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil $1\frac{1}{2}$ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.		
Animal Se	ciences				
Name of the	animal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
				logging around the sheds as it may help in mosquito breeding.	
	neasures f			nd around the birds/ animals sheds.	
Poultry		All susceptible age groups (as and when	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.	
		required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Sheep/ Go	at	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.	
Pig		Above 3 months of age (as and when	Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
		required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buf	falo/	Above 3 months of	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
Mithun		age (as and when required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp/	Grow –		- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	out/		maintained at 1.0-1.5m.		
culture nurse		ries	- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
				ortified with vitamins and minerals should be provided.	
			<ul> <li>Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>		
Paddy	addy Water management			ter depth of the trenches in paddy field.	
cum fish		5	- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide		
culture			application.		

#### SMS:

Lakliba Sagolshendagi Thangja faoba nong khara chuba yai. Phou pambi amadi mana kngbi tourakadi eeshing litre 15da 15ml Hexaclonazole natraga 30-40g Carbendazim yanlaga chaithokpiyu. Yengi thaknaba eeshing litre amada 1g Ventrimizole yanlaga numit 3 pithakpiyu.

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### "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 30<sup>th</sup> September, 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 1<sup>st</sup> to 5<sup>th</sup> October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26 <sup>th</sup> to 29 <sup>th</sup> September, 2014)	Weather forecast for next five days of Churachandpur (1 <sup>st</sup> to 5 <sup>th</sup> October, 2014)
During past four days sky was mainly cloudy to cloudy upto $27^{\text{th}}$ then mainly clear to partly cloudy on $28^{\text{th}} \& 29^{\text{th}}$ Sept. <b>8.2 mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $25.8 - 28.7$ °C, range of minimum temperature observed was $18.6 - 20.4$ °C, mean relative humidity observed in morning and afternoon were 90.0 % and 77.8 % respectively. The average wind speed range was $1.4 - 2.8$ km/hr.	There may be light rain during Thursday to Saturday. Sky may be mainly clear to partly cloudy with maximum temp. of $27.0 - 29.0$ °C & minimum temp. $17.0 - 18.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 68 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Dough stage to grain filling		<ul> <li>Water level should be maintained at 5cm level upto dough stage for better growth and development.</li> <li>Regular monitoring of pest and disease infestation is essential.</li> </ul>
	0 0	Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to maturity	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Pod formation		- Hand weeding should be done.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage	manning		<ul> <li>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.</li> </ul>
Horticulture Crops	I <u></u>		
Ginger/ Turmeric	Rhizome initiation stage	leaf blotch and leaf	<ul> <li>Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after</li> </ul>
		spot	rains.





# "Integrated Agromet Advisory Services"

Mango Appearance of new flush in bearing trees			At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil $1\frac{1}{2}$ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the		
				formulation three times a day. Use it for 1 acre with irrigation water.	
Animal Sci			I	7	
Name of the a		Growth stage	Disease/ infestation	Agro-meteorological advisories	
				logging around the sheds as it may help in mosquito breeding.	
	easures t			nd around the birds/ animals sheds.	
Poultry		All susceptible age groups (as and when	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.	
		required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Sheep/ Goa	oat Above 3 months of age (as and when required)		Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.	
Pig		Above 3 months of age (as and when	Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
		required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buffa	alo/	Above 3 months of	Deworming	Give Nilzan/Tolzan-F @ 30ml/ 100 kg body weight.	
Mithun		age (as and when required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp/ Catfish	Grow – out/		- Ponds should be free from unwanted vegetation and insects and water depth should be		
culture	nurseries		maintained at 1.0-1.5m.		
culture nurse			<ul> <li>Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</li> <li>Well balanced feed fortified with vitamins and minerals should be provided.</li> </ul>		
				4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	
			- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.		
Paddy	addy Water management			ter depth of the trenches in paddy field.	
cum fish				I mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	
culture			application.		

### SMS:

Lakliba Sagolshendagi Thangja faoba nong khara chuba yai. Phou pambi amadi mana kngbi tourakadi eeshing litre 15da 15ml Hexaclonazole natraga 30-40g Carbendazim yanlaga chaithokpiyu. Yengi thaknaba eeshing litre amada 1g Ventrimizole yanlaga numit 3 pithakpiyu.

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



### "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 30<sup>th</sup> September, 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 1<sup>st</sup> to 5<sup>th</sup> October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26 <sup>th</sup> to 29 <sup>th</sup> September, 2014)	Weather forecast for next five days of Imphal-East (1 <sup>st</sup> to 5 <sup>th</sup> October, 2014)
During past four days sky was mainly cloudy to cloudy upto $27^{\text{th}}$ then mainly clear to partly cloudy on $28^{\text{th}} \& 29^{\text{th}}$ Sept. <b>8.2 mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $25.8 - 28.7$ °C, range of minimum temperature observed was $18.6 - 20.4$ °C, mean relative humidity observed in morning and afternoon were 90.0 % and 77.8 % respectively. The average wind speed range was $1.4 - 2.8$ km/hr.	There may be light rain during Thursday to Saturday. Sky may be mainly clear to partly cloudy with maximum temp. of $28.0 - 30.0$ °C & minimum temp. $17.0 - 18.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 86 % (minimum RH). The average wind speed may be 4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			·
Kharif Rice	Dough stage to grain filling		<ul> <li>Water level should be maintained at 5cm level upto dough stage for better growth and development.</li> <li>Regular monitoring of pest and disease infestation is essential.</li> </ul>
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to maturity	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Pod formation		- Hand weeding should be done.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to		Weeding may be done.
0	fruiting	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
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 Crops		1	0
Ginger/ Turmeric	Rhizome initiation stage	leaf blotch and leaf spot	<ul> <li>Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>





# "Integrated Agromet Advisory Services"

Mango		new	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 $\frac{1}{2}$ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1 kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.	
Animal Sc				-		
Name of the a			h stage	Disease/ infestation	Agro-meteorological advisories	
					ogging around the sheds as it may help in mosquito breeding.	
	easures t				nd around the birds/ animals sheds.	
Poultry		groups	ceptible age (as and when	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.	
		require	ed)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Sheep/ Goa	at	t Above 3 months of age (as and when required)		Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.	
Pig		Above 3 months of age (as and when required)		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
				Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buff	falo/	Above	3 months of	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
Mithun		age (as and when required)		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:						
Type of Farming	Stage	N	Aanagement	Agro-metrological advisori	es	
Carp/	Grow –			- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	out/			maintained at 1.0-1.5m.		
culture	culture nurseries			- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
				- Well balanced feed fortified with vitamins and minerals should be provided.		
				<ul> <li>Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>		
Paddy	Water	r manag			ter depth of the trenches in paddy field.	
cum fish		U			mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	
culture				application.	· · ·	

### SMS:

Lakliba Sagolshendagi Thangja faoba nong khara chuba yai. Phou pambi amadi mana kngbi tourakadi eeshing litre 15da 15ml Hexaclonazole natraga 30-40g Carbendazim yanlaga chaithokpiyu. Yengi thaknaba eeshing litre amada 1g Ventrimizole yanlaga numit 3 pithakpiyu.



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



#### "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 30<sup>th</sup> September, 2014

#### Imphal-West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 1<sup>st</sup> to 5<sup>th</sup> October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26 <sup>th</sup> to 29 <sup>th</sup> September, 2014)	Weather forecast for next five days of Imphal-West (1 <sup>st</sup> to 5 <sup>th</sup> October, 2014)
During past four days sky was mainly cloudy to cloudy upto $27^{th}$ then mainly clear to partly cloudy on $28^{th} \& 29^{th}$ Sept. <b>8.2 mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $25.8 - 28.7$ °C, range of minimum temperature observed was $18.6 - 20.4$ °C, mean relative humidity observed in morning and afternoon were 90.0 % and 77.8 % respectively. The average wind speed range was $1.4 - 2.8$ km/hr.	There may be light rain during Thursday to Saturday. Sky may be mainly clear to partly cloudy with maximum temp. of $28.0 - 31.0$ °C & minimum temp. $17.0 - 18.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 76 % (minimum RH). The average wind speed may be 4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			·
Kharif Rice	Dough stage to grain filling		<ul> <li>Water level should be maintained at 5cm level upto dough stage for better growth and development.</li> <li>Regular monitoring of pest and disease infestation is essential.</li> </ul>
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to maturity	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Pod formation		- Hand weeding should be done.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to		Weeding may be done.
0	fruiting	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
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 Crops		1	<u> </u>
Ginger/ Turmeric	Rhizome initiation stage	leaf blotch and leaf spot	<ul> <li>Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>





# "Integrated Agromet Advisory Services"

Mango		new	earance of flush in ing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 $\frac{1}{2}$ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1 kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.	
Animal Sc				-		
Name of the a			h stage	Disease/ infestation	Agro-meteorological advisories	
					ogging around the sheds as it may help in mosquito breeding.	
	easures t				nd around the birds/ animals sheds.	
Poultry		groups	ceptible age (as and when	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.	
		require	ed)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Sheep/ Goa	at Above 3 months of age (as and when required)		and when	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.	
Pig		Above 3 months of age (as and when required)		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
				Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buff	falo/	Above	3 months of	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
Mithun		age (as require	and when ed)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:						
Type of Farming	Stage	N	Aanagement	Agro-metrological advisori	es	
Carp/	Grow	Grow – - Ponds should be free from		- Ponds should be free	from unwanted vegetation and insects and water depth should be	
Catfish	out/			maintained at 1.0-1.5m.		
culture	nurseries		- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.			
				- Well balanced feed fortified with vitamins and minerals should be provided.		
			<ul> <li>Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>			
Paddy	Water	r manag			ter depth of the trenches in paddy field.	
cum fish		U			mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	
culture				application.	· · ·	

### SMS:

Lakliba Sagolshendagi Thangja faoba nong khara chuba yai. Phou pambi amadi mana kngbi tourakadi eeshing litre 15da 15ml Hexaclonazole natraga 30-40g Carbendazim yanlaga chaithokpiyu. Yengi thaknaba eeshing litre amada 1g Ventrimizole yanlaga numit 3 pithakpiyu.

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



E-mail: agromet\_mnp@yahoo.co.uk

### "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 30<sup>th</sup> September, 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 1<sup>st</sup> to 5<sup>th</sup> October, 2014 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati
Imphal - West (26 <sup>th</sup> to 29 <sup>th</sup> September, 2014)	(1 <sup>st</sup> to 5 <sup>th</sup> October, 2014)
During past four days sky was mainly cloudy to cloudy upto $27^{\text{th}}$ then mainly clear to partly cloudy on $28^{\text{th}} \& 29^{\text{th}}$ Sept. <b>8.2 mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $25.8 - 28.7$ °C, range of minimum temperature observed was $18.6 - 20.4$ °C, mean relative humidity observed in morning and afternoon were 90.0 % and 77.8 % respectively. The average wind speed range was $1.4 - 2.8$ km/hr.	There may be light rain during Thursday to Saturday. Sky may be mainly clear to partly cloudy with maximum temp. of $26.0 - 28.0$ °C & minimum temp. $15.0 - 17.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 77 % (minimum RH). The average wind speed may be 4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	<u>.</u>		
Kharif Rice	Dough stage to grain filling		<ul> <li>Water level should be maintained at 5cm level upto dough stage for better growth and development.</li> <li>Regular monitoring of pest and disease infestation is essential.</li> </ul>
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to maturity	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Pod formation		- Hand weeding should be done.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to		Weeding may be done.
	fruiting	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
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 Crops	J.	1	<u> </u>
Ginger/ Turmeric	Rhizome initiation stage	leaf blotch and leaf spot	<ul> <li>Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>





# "Integrated Agromet Advisory Services"

Mango		Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil $1\frac{1}{2}$ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the	
	•			formulation three times a day. Use it for 1 acre with irrigation water.	
Animal Sci		~ .			
Name of the a		Growth stage	Disease/ infestation	Agro-meteorological advisories	
				logging around the sheds as it may help in mosquito breeding.	
-	easures t	All susceptible age	Coccidiosis	nd around the birds/ animals sheds.	
Poultry		groups (as and when		Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.	
		required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Sheep/ Goa	<b>eep/ Goat</b> Above 3 months of age (as and when required)		Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.	
Pig		Above 3 months of age (as and when	Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
		required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buffa	alo/	Above 3 months of	Deworming	Give Nilzan/Tolzan-F @ 30ml/ 100 kg body weight.	
Mithun		age (as and when required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp/	Grow	-	- Ponds should be free	from unwanted vegetation and insects and water depth should be	
Catfish	out/		maintained at 1.0-1.5m.		
culture	<b>lture</b> nurseries		- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
			- Well balanced feed fortified with vitamins and minerals should be provided.		
			<ul> <li>Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>		
Paddy	Water	r management		ter depth of the trenches in paddy field.	
cum fish culture	cum fish			I mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	

### SMS:

Lakliba Sagolshendagi Thangja faoba nong khara chuba yai. Phou pambi amadi mana kngbi tourakadi eeshing litre 15da 15ml Hexaclonazole natraga 30-40g Carbendazim yanlaga chaithokpiyu. Yengi thaknaba eeshing litre amada 1g Ventrimizole yanlaga numit 3 pithakpiyu.

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 30<sup>th</sup> September, 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 1<sup>st</sup> to 5<sup>th</sup> October, 2014 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (26 <sup>th</sup> to 29 <sup>th</sup> September, 2014)	(1 <sup>st</sup> to 5 <sup>th</sup> October, 2014)
During past four days sky was mainly cloudy to cloudy upto $27^{\text{th}}$ then mainly clear to partly cloudy on $28^{\text{th}} \& 29^{\text{th}}$ Sept. <b>8.2 mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $25.8 - 28.7$ °C, range of minimum temperature observed was $18.6 - 20.4$ °C, mean relative humidity observed in morning and afternoon were 90.0 % and 77.8 % respectively. The average wind speed range was $1.4 - 2.8$ km/hr.	There may be light rain during Thursday to Saturday. Sky may be mainly clear to partly cloudy with maximum temp. of $28.0 - 31.0$ °C & minimum temp. $17.0 - 19.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 67 % (minimum RH). The average wind speed may be 3-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			·
Kharif Rice	Dough stage to grain filling		<ul> <li>Water level should be maintained at 5cm level upto dough stage for better growth and development.</li> <li>Regular monitoring of pest and disease infestation is essential.</li> </ul>
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to maturity	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Pod formation		- Hand weeding should be done.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to		Weeding may be done.
0	fruiting	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
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 Crops	<u>.</u>	1	<u> </u>
Ginger/ Turmeric	Rhizome initiation stage	leaf blotch and leaf spot	<ul> <li>Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>





# "Integrated Agromet Advisory Services"

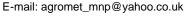
	Appearance of		At this stage, apply 50g Urea + $100g$ DAP + $40g$ MOP in the soil $1\frac{1}{2}$	
	new flush in		feet away from the trunk or Planth growth promoting rhizobium bacteria	
	bearing trees		(PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10	
	C		litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live	
			forest soil in 200 litres of water. Ferment for 5-7 days. Stir the	
			formulation three times a day. Use it for 1 acre with irrigation water.	
ences			· · ·	
imal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
ın drink	ing water to birds a	nd animals. Avoid water	logging around the sheds as it may help in mosquito breeding.	
asures t	o reduce flies and m	osquitoes population in a	nd around the birds/ animals sheds.	
	All susceptible age	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with	
		n	glucose.	
	required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
;	Above 3 months of	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
	age (as and when		pregnancy.	
			Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
	•			
	required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week	
			while brushing the animal.	
lo/	Above 3 months of	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
	age (as and when required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Stage	Management	Agro-metrological advisor	ies	
Grow	-	- Ponds should be free	from unwanted vegetation and insects and water depth should be	
		maintained at 1.0-1.5m	•	
nurseries - Fee		- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
		- Well balanced feed fortified with vitamins and minerals should be provided.		
		- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		
		- 8000-10,000 fingerlin	ngs/ha can be stocked. Sampling of fish should be done by regular netting.	
Water management			ter depth of the trenches in paddy field.	
	C C		d mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	
sh e		application.		
	imal n drink asures t lo/ Stage Grow out/ nurser	new flush in bearing trees         ences         imal       Growth stage         n drinking water to birds a         asures to reduce flies and m         All susceptible age groups (as and when required)         Above 3 months of age (as and when required)         Above 3 months of age (as and when required)         Above 3 months of age (as and when required)         Io/       Above 3 months of age (as and when required)         Stage       Management         Grow – out/       Wanagement	new flush in bearing trees       new flush in bearing trees         imal       Growth stage       Disease/ infestation         n drinking water to birds and animals. Avoid water asures to reduce flies and mosquitoes population in a animals. Avoid water asures to reduce flies and mosquitoes population in a animals. Avoid water asures to reduce flies and mosquitoes population in a animals. Avoid water asures to reduce flies and mosquitoes population in a animals. Avoid water asures to reduce flies and mosquitoes population in a animals. Avoid water asures to reduce flies and mosquitoes population in a animals. Avoid water asures (as and when required)         Above 3 months of age (as and when required)       Coccidial infection (Diarrhea)         Deworming       Ticks         Io/       Above 3 months of age (as and when required)       Deworming         Ticks       Deworming         Stage       Management       Agro-metrological advisor         Grow – out/       - Ponds should be free maintained at 1.0-1.5m       - Feeds should be prov         Nurseries       - Well balanced feed f       - Apply Green AQ @       - 8000-10,000 fingerli         Water management       - Maintained 1.0 m wa       - Provide rice bran and	

#### SMS:

Lakliba Sagolshendagi Thangja faoba nong khara chuba yai. Phou pambi amadi mana kngbi tourakadi eeshing litre 15da 15ml Hexaclonazole natraga 30-40g Carbendazim yanlaga chaithokpiyu. Yengi thaknaba eeshing litre amada 1g Ventrimizole yanlaga numit 3 pithakpiyu.

HIP HONE 24

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





### "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 30<sup>th</sup> September, 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 1<sup>st</sup> to 5<sup>th</sup> October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26 <sup>th</sup> to 29 <sup>th</sup> September, 2014)	Weather forecast for next five days of Thoubal (1 <sup>st</sup> to 5 <sup>th</sup> October, 2014)
During past four days sky was mainly cloudy to cloudy upto $27^{\text{th}}$ then mainly clear to partly cloudy on $28^{\text{th}} \& 29^{\text{th}}$ Sept. <b>8.2 mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $25.8 - 28.7$ °C, range of minimum temperature observed was $18.6 - 20.4$ °C, mean relative humidity observed in morning and afternoon were 90.0 % and 77.8 % respectively. The average wind speed range was $1.4 - 2.8$ km/hr.	There may be light rain during Thursday to Saturday. Sky may be mainly clear to partly cloudy with maximum temp. of $28.0 - 31.0$ °C & minimum temp. $17.0 - 19.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 87 % (minimum RH). The average wind speed may be 4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Dough stage to grain filling		<ul> <li>Water level should be maintained at 5cm level upto dough stage for better growth and development.</li> <li>Regular monitoring of pest and disease infestation is essential.</li> </ul>
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to maturity	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Pod formation		- Hand weeding should be done.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to		Weeding may be done.
0	fruiting	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
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 Crops		1	<u> </u>
Ginger/ Turmeric	Rhizome initiation stage	leaf blotch and leaf spot	<ul> <li>Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>





# "Integrated Agromet Advisory Services"

Mango Appearance of new flush in bearing trees			At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil $1\frac{1}{2}$ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.		
Animal So	ciences			Tormandion direct dimes a day. Obe it for 1 acre with inigation water	
Name of the a	animal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
				logging around the sheds as it may help in mosquito breeding.	
	easures t			nd around the birds/ animals sheds.	
Poultry		All susceptible age groups (as and when	Coccidiosis n	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.	
		required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Sheep/ Goa	Above 3 months of age (as and when required)		Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.	
Pig		Above 3 months of age (as and when	Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
		required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buf	falo/	Above 3 months of	Deworming	Give Nilzan/Tolzan-F @ 30ml/ 100 kg body weight.	
Mithun		age (as and when required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp/	Grow	-		from unwanted vegetation and insects and water depth should be	
Catfish	out/		maintained at 1.0-1.5m.		
culture nurseri		ries		vided 2-3 times a day @ 5-10% body weight per day.	
			- Well balanced feed fortified with vitamins and minerals should be provided. Apply Green AQ @ $41$ itro / he or lime @ 200kg/ he Maintain good quality of pond water		
			<ul> <li>Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>		
Paddy	Water	r management		tter depth of the trenches in paddy field.	
cum fish		0		l mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide	
culture			application.		

#### SMS:

Lakliba Sagolshendagi Thangja faoba nong khara chuba yai. Phou pambi amadi mana kngbi tourakadi eeshing litre 15da 15ml Hexaclonazole natraga 30-40g Carbendazim yanlaga chaithokpiyu. Yengi thaknaba eeshing litre amada 1g Ventrimizole yanlaga numit 3 pithakpiyu.

E-mail: agromet\_mnp@yahoo.co.uk



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### "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 30<sup>th</sup> September, 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 1<sup>st</sup> to 5<sup>th</sup> October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26 <sup>th</sup> to 29 <sup>th</sup> September, 2014)	Weather forecast for next five days of Ukhrul (1 <sup>st</sup> to 5 <sup>th</sup> October, 2014)
During past four days sky was mainly cloudy to cloudy upto $27^{\text{th}}$ then mainly clear to partly cloudy on $28^{\text{th}} \& 29^{\text{th}}$ Sept. <b>8.2 mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $25.8 - 28.7$ °C, range of minimum temperature observed was $18.6 - 20.4$ °C, mean relative humidity observed in morning and afternoon were 90.0 % and 77.8 % respectively. The average wind speed range was $1.4 - 2.8$ km/hr.	There may be light rain during Thursday to Saturday. Sky may be mainly clear to partly cloudy with maximum temp. of $25.0 - 27.0$ °C & minimum temp. $14.0 - 16.0$ °C. Relative humidity may reach a maximum of 98 % (maximum RH) & 69 % (minimum RH). The average wind speed may be 4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			·
Kharif Rice	Dough stage to grain filling		<ul> <li>Water level should be maintained at 5cm level upto dough stage for better growth and development.</li> <li>Regular monitoring of pest and disease infestation is essential.</li> </ul>
	0 0	Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to maturity	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Pod formation		- Hand weeding should be done.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to		Weeding may be done.
C	fruiting	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
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 Crops	1	1	<u> </u>
Ginger/ Turmeric	Rhizome initiation stage	leaf blotch and leaf spot	<ul> <li>Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>





# "Integrated Agromet Advisory Services"

Mango		Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil $1\frac{1}{2}$ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.	
Animal So	ciences				
Name of the		Growth stage	Disease/ infestation	Agro-meteorological advisories	
- Provide cl	ean drink	_	nd animals. Avoid water	logging around the sheds as it may help in mosquito breeding.	
- Take up m	neasures t			nd around the birds/ animals sheds.	
Poultry		All susceptible age groups (as and when required)	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.	
			Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Sheep/ Go	at	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.	
Pig		Above 3 months of age (as and when	Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
		required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buf	falo/	Above 3 months of	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
Mithun		age (as and when required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp/ Catfish	Grow out/	-	- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.		
culture	nurseries		<ul> <li>Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</li> <li>Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>		
Paddy cum fish culture	Water management		<ul> <li>Maintained 1.0 m water depth of the trenches in paddy field.</li> <li>Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</li> </ul>		

#### SMS:

Lakliba Sagolshendagi Thangja faoba nong khara chuba yai. Phou pambi amadi mana kngbi tourakadi eeshing litre 15da 15ml Hexaclonazole natraga 30-40g Carbendazim yanlaga chaithokpiyu. Yengi thaknaba eeshing litre amada 1g Ventrimizole yanlaga numit 3 pithakpiyu.