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



## "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 24<sup>th</sup> September, 2013

### 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 25<sup>th</sup> to 29<sup>th</sup> September, 2013 as given below:

 duys, i.e., itolii 25 to 27 September, 2015 us given below.	
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur (25 <sup>th</sup> to 29 <sup>th</sup>
Imphal - West (20 <sup>th</sup> to 23 <sup>rd</sup> September, 2013)	September, 2013)
During the past four days the sky was mainly cloudy to	It is likely to rains during next five days. The sky may be partly
cloudy but mainly clear from afternoon hours of 21 <sup>st</sup> to 22 <sup>nd</sup>	cloudy on 25 <sup>th</sup> then mainly cloudy to cloudy upto 29 <sup>th</sup> with
Sept. No rainfall was recorded during past four days.	maximum temp. of 28.0 - 31.0 °C and minimum temp. of 19.0
Maximum temperature range observed was 30.4 – 34.0 °C,	– 22.0 °C. The maximum RH may attain max of 100 % and
range of minimum temperature observed was 20.0 - 22.0	minimum RH of 82 %. The average wind speed during next
°C, mean relative humidity observed in morning and	five days may be 0-4 km/hr.
afternoon were 90.75 % and 63.75 % respectively. The	
average wind speed range was 0.9 - 1.8 km/hr.	

Weather Forecast for next 3 days (upto 0830 hours IST of 27<sup>th</sup> September, 2013) Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	l		J
	o spray weedicide m	ust not be used for spray	ing of insecticides or pesticides. Insecticides and pesticides must not be
combined while s	spraying. Farmers are	e advised to add stickers	@ 5ml/ pump.
* All sprays men	tioned below must be	e done if there is probabi	ility of no rains for 2-3 hrs.
			- After rains, weed out and top dress with remaining urea dose @ 33 Kg/
Rice	Panicle initiation		ha at panicle initiation stage. Fertilizer must be applied after proper
	to flowering		draining and weeding. Water should be maintained at 5cm level upto
			dough stage.
			- Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in
			flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of
			water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf	Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		folder, whorl maggot	
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Plant hopper or any	Imidachloprid @ 7ml/ 15 litres of water.
		sucking insect	
Soybean	Pod formation		- Weeding may be done after rains.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging		- Earthing up must be done at peg formation stage done after rains.
		Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Blackgram /	Vegetative to	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
rice bean	flowering		- Weeding may be done after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth.
Horticulture Cro	ps		

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



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



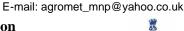
# "Integrated Agromet Advisory Services"

Ginger/	Rhizome	- Leaf blotch & Leaf	- After rains, spray Mancozeb @ 2 g/lit of water at 15 to 10 days interval
Turmeric	formation	Spot	depending upon the severity of incidence.
		- Shoot borer	- Apply Malathion @ 2ml/lit of water or Monocrotophos @ 1 ml/litre of
			water twice at 7 – 10 days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be
			started depending upon the field condition. Prepared beds must be
			exposed to sun for at least 10-15 days before sowing. Select varieties
			having duration of 100-110 days.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables			radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/	Land preparation		- Sowing of pea/ French bean/ broad bean may be done in upland area
french bean/	1 1		after rains.
broad bean			
Animal Science		1	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
Duckery	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
			with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
•	of age		
Pig	Above 3 months	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
	of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite	- Spray Topicure solution, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries	1		
	ond with happa ne	et to avoid escape of fi	shes from pond due to water overflow during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of
			RCD @1000kg/ha. If colour & odour of changes then half of the pond
			water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth
			should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a
			day. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish	Water		Water depth of the trenches in paddy field should be maintained at 1.0m.
culture			Rice bran and mustard oil cake (1:1) can be provided as supplementary feed
			Application of insecticide/pesticide should be prohibited in paddy cum fish
Cat fish	Pond and water		culture. Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-
(Ngakra)			10000 fingerlings can be stocked/ ha. Water depth should be maintained at
(1) Suntu)			0.5m -0.8m for nurseries. Ponds should be manured with RCD @
			5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body
			weight.
	1		<u>v</u>

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray Kocide @5g/15lit water. Pig: Coccidiosis- Piperazine liq @10ml

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## "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 24<sup>th</sup> September, 2013

### 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 25<sup>th</sup> to 29<sup>th</sup> September, 2013 as given below:

•••	days, i.e., from 25 to 27 September, 2015 as given below.	
	Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel (25 <sup>th</sup> to 29 <sup>th</sup>
	Imphal - West (20 <sup>th</sup> to 23 <sup>rd</sup> September, 2013)	September, 2013)
	During the past four days the sky was mainly cloudy to	It is likely to rains during next five days. The sky may be partly
	cloudy but mainly clear from afternoon hours of 21 <sup>st</sup> to 22 <sup>nd</sup>	cloudy on 25 <sup>th</sup> then mainly cloudy to cloudy upto 29 <sup>th</sup> with
	Sept. No rainfall was recorded during past four days.	maximum temp. of 29.0 - 32.0 °C and minimum temp. of 20.0
	Maximum temperature range observed was 30.4 – 34.0 °C,	- 22.0 °C. The maximum RH may attain max of 100 % and
	range of minimum temperature observed was 20.0 - 22.0	minimum RH of 91 %. The average wind speed during next
	°C, mean relative humidity observed in morning and	five days may be 2-4 km/hr.
	afternoon were 90.75 % and 63.75 % respectively. The	
	average wind speed range was 0.9 - 1.8 km/hr.	

Weather Forecast for next 3 days (upto 0830 hours IST of 27<sup>th</sup> September, 2013) Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		J
			ring of insecticides or pesticides. Insecticides and pesticides must not be
		e advised to add stickers	
* All sprays men	tioned below must be	e done if there is probabi	ility of no rains for 2-3 hrs.
			- After rains, weed out and top dress with remaining urea dose @ 33 Kg/
Rice	Panicle initiation		ha at panicle initiation stage. Fertilizer must be applied after proper
	to flowering		draining and weeding. Water should be maintained at 5cm level upto
			dough stage.
			- Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in
			flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of
			water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf	Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		folder, whorl maggot	
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Plant hopper or any	Imidachloprid @ 7ml/ 15 litres of water.
		sucking insect	
Soybean	Pod formation		- Weeding may be done after rains.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging		- Earthing up must be done at peg formation stage done after rains.
		Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Blackgram /	Vegetative to	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
rice bean	flowering		- Weeding may be done after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
-			germination of seeds or fungal growth.
Horticulture Cro	ps		





# "Integrated Agromet Advisory Services"

Ginger/	Rhizome	- Leaf blotch & Leaf	- After rains, spray Mancozeb @ 2 g/ lit of water at 15 to 10 days interval
Turmeric	formation	Spot	depending upon the severity of incidence.
		- Shoot borer	- Apply Malathion @ 2ml/lit of water or Monocrotophos @ 1 ml/litre of
			water twice at 7 – 10 days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be
			started depending upon the field condition. Prepared beds must be
			exposed to sun for at least 10-15 days before sowing. Select varieties
Dutatel	Flowering to	Fruit and shoot borer	<ul><li>having duration of 100-110 days.</li><li>Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.</li></ul>
Brinjal	fruiting	Fruit and shoot borer	- Spray Denamethrin @ 7 mi/ 10 m of water after rams.
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables			radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/	Land preparation		- Sowing of pea/ French bean/ broad bean may be done in upland area
french bean/			after rains.
broad bean			
Animal Science			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
Duckery	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
			with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
	of age		
Pig	Above 3 months	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
	of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite	- Spray Topicure solution, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries			<del>_</del>
	ond with happa ne	et to avoid escape of fi	shes from pond due to water overflow during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of
1			RCD @1000kg/ha. If colour & odour of changes then half of the pond
			water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth
			should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a
			day. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish	Water		Water depth of the trenches in paddy field should be maintained at 1.0m.
culture			Rice bran and mustard oil cake (1:1) can be provided as supplementary feed
			Application of insecticide/pesticide should be prohibited in paddy cum fish
Cat fish	Pond and water		culture. Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-
(Ngakra)	i onu anu water		10000 fingerlings can be stocked/ ha. Water depth should be maintained at
(11gania)			0.5m -0.8m for nurseries. Ponds should be manured with RCD @
			5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body
			weight.
	1		Ç

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray Kocide @5g/15lit water. Pig: Coccidiosis- Piperazine liq @10ml

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## "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 24<sup>th</sup> September, 2013

### 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 25<sup>th</sup> to 29<sup>th</sup> September, 2013 as given below:

Weather forecast for next five days of Churachandpur (25 <sup>th</sup> to
<u>29<sup>th</sup> September, 2013)</u>
It is likely to rains during next five days. The sky may be partly
cloudy on 25 <sup>th</sup> then mainly cloudy to cloudy upto 29 <sup>th</sup> with
maximum temp. of 29.0 - 31.0 °C and minimum temp. of 19.0
- 21.0 °C. The maximum RH may attain max of 100 % and
minimum RH of 86 %. The average wind speed during next
five days may be 0-4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 27<sup>th</sup> September, 2013) Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		1	J
* Sprayers used t	o spray weedicide m	ust not be used for spray	ring of insecticides or pesticides. Insecticides and pesticides must not be
		e advised to add stickers	
* All sprays men	tioned below must be	e done if there is probabi	ility of no rains for 2-3 hrs.
			- After rains, weed out and top dress with remaining urea dose @ 33 Kg/
Rice	Panicle initiation		ha at panicle initiation stage. Fertilizer must be applied after proper
	to flowering		draining and weeding. Water should be maintained at 5cm level upto
			dough stage.
			- Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in
			flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of
		C	water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf	Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		folder, whorl maggot	
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Plant hopper or any	Imidachloprid @ 7ml/ 15 litres of water.
<u>a</u> 1		sucking insect	
Soybean	Pod formation	D	- Weeding may be done after rains.
<u> </u>	<b>D</b> .	Rust	- Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	TT:1.1 1	- Earthing up must be done at peg formation stage done after rains.
		Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Blackgram /	Vegetative to	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
rice bean	flowering		- Weeding may be done after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth.
Horticulture Cro	ps		





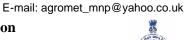
# "Integrated Agromet Advisory Services"

Ginger/	Rhizome	- Leaf blotch & Leaf	- After rains, spray Mancozeb @ 2 g/ lit of water at 15 to 10 days interval
Turmeric	formation	Spot	depending upon the severity of incidence.
		- Shoot borer	- Apply Malathion @ 2ml/lit of water or Monocrotophos @ 1 ml/litre of
			water twice at 7 – 10 days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be
			started depending upon the field condition. Prepared beds must be
			exposed to sun for at least 10-15 days before sowing. Select varieties
Destas to 1	Elemente e te	Fruit and shoot borer	having duration of 100-110 days.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables			radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/	Land preparation		- Sowing of pea/ French bean/ broad bean may be done in upland area
french bean/			after rains.
broad bean			
Animal Science		T	<u> </u>
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
Duckery	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
			with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be
<u>a</u> (a )		D .	administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
	of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite	- Spray Topicure solution, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries			
	ond with happa ne	et to avoid escape of fi	shes from pond due to water overflow during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of
1			RCD @1000kg/ha. If colour & odour of changes then half of the pond
			water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth
			should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a
			day. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish	Water		Water depth of the trenches in paddy field should be maintained at 1.0m.
culture			Rice bran and mustard oil cake (1:1) can be provided as supplementary feed
			Application of insecticide/pesticide should be prohibited in paddy cum fish
Cat fish	Pond and water		culture.
	Fond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000- 10000 fingerlings can be stocked/ ha. Water depth should be maintained at
(Ngakra)			0.5m -0.8m for nurseries. Ponds should be manured with RCD @
			5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body
	1000		weight.
	1		

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray Kocide @5g/15lit water. Pig: Coccidiosis- Piperazine liq @10ml

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## "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 24<sup>th</sup> September, 2013

### 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 25<sup>th</sup> to 29<sup>th</sup> September, 2013 as given below:

Weather forecast for next five days of Imphal - East (25 <sup>th</sup> to
29 <sup>th</sup> September, 2013)
It is likely to rains during next five days. The sky may be partly
cloudy on 25 <sup>th</sup> then mainly cloudy to cloudy upto 29 <sup>th</sup> with
maximum temp. of 28.0 - 32.0 °C and minimum temp. of 19.0
- 21.0 °C. The maximum RH may attain max of 100 % and
minimum RH of 90 %. The average wind speed during next
five days may be 2-3 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 27<sup>th</sup> September, 2013) Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			J
		ust not be used for spray e advised to add stickers	ing of insecticides or pesticides. Insecticides and pesticides must not be @ 5ml/ pump.
			ility of no rains for 2-3 hrs.
Rice	Panicle initiation to flowering		- After rains, weed out and top dress with remaining urea dose @ 33 Kg/ ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto
			dough stage. - Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
Soybean	Pod formation	Ŭ	- Weeding may be done after rains.
e		Rust	- Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Tikka disease	<ul> <li>Earthing up must be done at peg formation stage done after rains.</li> <li>Redomil75% MZ @ 15g/ 15litre water.</li> </ul>
		Rust	- Bayleton @ 10g/ 15 ml of water.
Blackgram /	Vegetative to	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
rice bean	flowering		- Weeding may be done after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.





# "Integrated Agromet Advisory Services"

Ginger/	Rhizome	- Leaf blotch & Leaf	- After rains, spray Mancozeb @ 2 g/ lit of water at 15 to 10 days interval
Turmeric	formation	Spot	depending upon the severity of incidence.
		- Shoot borer	- Apply Malathion @ 2ml/lit of water or Monocrotophos @ 1 ml/litre of
			water twice at $7 - 10$ days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be
			started depending upon the field condition. Prepared beds must be
			exposed to sun for at least 10-15 days before sowing. Select varieties
			having duration of 100-110 days.
Brinjal	Flowering to	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.
D-1.	fruiting Land preparation		
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables Garden pea/	Land preparation		<ul><li>radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.</li><li>Sowing of pea/ French bean/ broad bean may be done in upland area</li></ul>
french bean/	Land preparation		after rains.
broad bean			arter rams.
Animal Science	es	· ·	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
Duckery	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
			with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
	of age		
Pig	Above 3 months	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
	of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite	- Spray Topicure solution, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries			
	ond with hanna ne	et to avoid escape of fi	shes from pond due to water overflow during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of
curpediture	GIOW OUL	I olid water	RCD @1000kg/ha. If colour & odour of changes then half of the pond
			water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth
			should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a
			day. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish	Water		Water depth of the trenches in paddy field should be maintained at 1.0m.
culture			Rice bran and mustard oil cake (1:1) can be provided as supplementary feed
			Application of insecticide/pesticide should be prohibited in paddy cum fish
			culture.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-
(Ngakra)			10000 fingerlings can be stocked/ ha. Water depth should be maintained at
			0.5m -0.8m for nurseries. Ponds should be manured with RCD @
			5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body
			weight.

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray Kocide @5g/15lit water. Pig: Coccidiosis- Piperazine liq @10ml

HIPHINI ICAR

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



## "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 24<sup>th</sup> September, 2013

### 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 25<sup>th</sup> to 29<sup>th</sup> September, 2013 as given below:

	Som 25 to 25 September, 2015 us given below.	
	int past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - West (25 <sup>th</sup> to
Imp	hal - West (20 <sup>th</sup> to 23 <sup>rd</sup> September, 2013)	29 <sup>th</sup> September, 2013)
During the	much form down the also may mainly also do to	It is likely to using during most fine down. The also more he mostly
	past four days the sky was mainly cloudy to	It is likely to rains during next five days. The sky may be partly
	mainly clear from afternoon hours of 21 <sup>st</sup> to 22 <sup>nd</sup>	cloudy on 25 <sup>th</sup> then mainly cloudy to cloudy upto 29 <sup>th</sup> with
Sept. No	rainfall was recorded during past four days.	maximum temp. of 28.0 - 31.0 °C and minimum temp. of 19.0
Maximum	temperature range observed was 30.4 – 34.0 °C,	– 20.0 °C. The maximum RH may attain max of 100 % and
range of m	inimum temperature observed was 20.0 - 22.0	minimum RH of 82 %. The average wind speed during next
°C, mean	relative humidity observed in morning and	five days may be 0-2 km/hr.
afternoon y	were 90.75 % and 63.75 % respectively. The	
average with	nd speed range was 0.9 – 1.8 km/hr.	

Weather Forecast for next 3 days (upto 0830 hours IST of 27<sup>th</sup> September, 2013) Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
			ing of insecticides or pesticides. Insecticides and pesticides must not be
		e advised to add stickers	
* All sprays men	tioned below must be	e done if there is probabi	lity of no rains for 2-3 hrs.
			- After rains, weed out and top dress with remaining urea dose @ 33 Kg/
Rice	Panicle initiation		ha at panicle initiation stage. Fertilizer must be applied after proper
	to flowering		draining and weeding. Water should be maintained at 5cm level upto
			dough stage.
			- Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in
			flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of
		C C	water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf	Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		folder, whorl maggot	
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Plant hopper or any	Imidachloprid @ 7ml/ 15 litres of water.
		sucking insect	
Soybean	Pod formation		- Weeding may be done after rains.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging		- Earthing up must be done at peg formation stage done after rains.
		Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Blackgram /	Vegetative to	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
rice bean	flowering		- Weeding may be done after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
-			germination of seeds or fungal growth.
Horticulture Cro	ps		





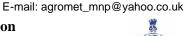
# "Integrated Agromet Advisory Services"

Ginger/	Rhizome	- Leaf blotch & Leaf	- After rains, spray Mancozeb @ 2 g/ lit of water at 15 to 10 days interval
Turmeric	formation	Spot	depending upon the severity of incidence.
		- Shoot borer	- Apply Malathion @ 2ml/lit of water or Monocrotophos @ 1 ml/litre of
			water twice at 7 – 10 days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be
			started depending upon the field condition. Prepared beds must be
			exposed to sun for at least 10-15 days before sowing. Select varieties
Dutatel	Flowering to	Fruit and shoot borer	<ul><li>having duration of 100-110 days.</li><li>Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.</li></ul>
Brinjal	fruiting	Fruit and shoot borer	- Spray Denamethrin @ 7 mi/ 10 m of water after rams.
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables			radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/	Land preparation		- Sowing of pea/ French bean/ broad bean may be done in upland area
french bean/			after rains.
broad bean			
Animal Science			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
Duckery	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
			with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
	of age		
Pig	Above 3 months	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
	of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite	- Spray Topicure solution, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries			
	ond with happa ne	t to avoid escape of fi	shes from pond due to water overflow during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of
1			RCD @1000kg/ha. If colour & odour of changes then half of the pond
			water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth
			should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a
			day. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish	Water		Water depth of the trenches in paddy field should be maintained at 1.0m.
culture			Rice bran and mustard oil cake (1:1) can be provided as supplementary feed
			Application of insecticide/pesticide should be prohibited in paddy cum fish
Cat finit	Dend 1 1		culture.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-
(Ngakra)			10000 fingerlings can be stocked/ ha. Water depth should be maintained at $0.5m$ 0.8m for purceries. Pende should be manured with PCD @
			0.5m -0.8m for nurseries. Ponds should be manured with RCD @
	Feed		5000kg/ha at initial and 500-800kg/ha at 15 days interval Feed with high protein content 35-40% CP should be given @ 5-8% body
	1.000		weight.
	1		weight.

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray Kocide @5g/15lit water. Pig: Coccidiosis- Piperazine liq @10ml

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



## "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 24<sup>th</sup> September, 2013

### Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 25<sup>th</sup> to 29<sup>th</sup> September, 2013 as given below:

•••	days, i.e., nom 25 to 27 September, 2015 as given below.	
	Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati (25 <sup>th</sup> to 29 <sup>th</sup>
	Imphal - West (20 <sup>th</sup> to 23 <sup>rd</sup> September, 2013)	September, 2013)
	During the past four days the sky was mainly cloudy to	It is likely to rains during next five days. The sky may be partly
	cloudy but mainly clear from afternoon hours of 21 <sup>st</sup> to 22 <sup>nd</sup>	cloudy on 25 <sup>th</sup> then mainly cloudy to cloudy upto 29 <sup>th</sup> with
	Sept. No rainfall was recorded during past four days.	maximum temp. of 27.0 - 30.0 °C and minimum temp. of 18.0
	Maximum temperature range observed was 30.4 – 34.0 °C,	– 20.0 °C. The maximum RH may attain max of 100 % and
	range of minimum temperature observed was 20.0 - 22.0	minimum RH of 84 %. The average wind speed during next
	°C, mean relative humidity observed in morning and	five days may be 2 km/hr.
	afternoon were 90.75 % and 63.75 % respectively. The	
	average wind speed range was 0.9 - 1.8 km/hr.	

Weather Forecast for next 3 days (upto 0830 hours IST of 27<sup>th</sup> September, 2013) Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		J
			ing of insecticides or pesticides. Insecticides and pesticides must not be
		e advised to add stickers	
* All sprays ment	tioned below must be	e done if there is probabi	ility of no rains for 2-3 hrs.
-			- After rains, weed out and top dress with remaining urea dose @ 33 Kg/
Rice	Panicle initiation		ha at panicle initiation stage. Fertilizer must be applied after proper
	to flowering		draining and weeding. Water should be maintained at 5cm level upto
			dough stage.
			- Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in
			flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of
			water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf	Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		folder, whorl maggot	
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Plant hopper or any	Imidachloprid @ 7ml/ 15 litres of water.
		sucking insect	
Soybean	Pod formation		- Weeding may be done after rains.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging		- Earthing up must be done at peg formation stage done after rains.
		Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Blackgram /	Vegetative to	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
rice bean	flowering		- Weeding may be done after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
-			germination of seeds or fungal growth.
Horticulture Cro	ps		





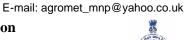
# "Integrated Agromet Advisory Services"

Ginger/	Rhizome	- Leaf blotch & Leaf	- After rains, spray Mancozeb @ 2 g/ lit of water at 15 to 10 days interval
Turmeric	formation	Spot	depending upon the severity of incidence.
		- Shoot borer	- Apply Malathion @ 2ml/lit of water or Monocrotophos @ 1 ml/litre of
			water twice at 7 – 10 days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be
			started depending upon the field condition. Prepared beds must be
			exposed to sun for at least 10-15 days before sowing. Select varieties
Dutatel	Flowering to	Fruit and shoot borer	<ul><li>having duration of 100-110 days.</li><li>Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.</li></ul>
Brinjal	fruiting	Fruit and shoot borer	- Spray Denamethrin @ 7 mi/ 10 m of water after rams.
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables			radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/	Land preparation		- Sowing of pea/ French bean/ broad bean may be done in upland area
french bean/			after rains.
broad bean			
Animal Science			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
Duckery	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
			with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
	of age		
Pig	Above 3 months	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
	of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite	- Spray Topicure solution, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries			<del>_</del>
	ond with happa ne	et to avoid escape of fi	shes from pond due to water overflow during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of
1			RCD @1000kg/ha. If colour & odour of changes then half of the pond
			water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth
			should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a
			day. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish	Water		Water depth of the trenches in paddy field should be maintained at 1.0m.
culture			Rice bran and mustard oil cake (1:1) can be provided as supplementary feed
			Application of insecticide/pesticide should be prohibited in paddy cum fish
Cat fish	Pond and water		culture. Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-
(Ngakra)	i onu anu water		10000 fingerlings can be stocked/ ha. Water depth should be maintained at
(11gania)			0.5m -0.8m for nurseries. Ponds should be manured with RCD @
			5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body
			weight.
			Ç

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray Kocide @5g/15lit water. Pig: Coccidiosis- Piperazine liq @10ml

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



## "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 24<sup>th</sup> September, 2013

### 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 25<sup>th</sup> to 29<sup>th</sup> September, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong (25 <sup>th</sup> to
Imphal - West (20 <sup>th</sup> to 23 <sup>rd</sup> September, 2013)	29 <sup>th</sup> September, 2013)
During the past four days the sky was mainly cloudy to	It is likely to rains during next five days. The sky may be partly
cloudy but mainly clear from afternoon hours of 21 <sup>st</sup> to 22 <sup>nd</sup>	cloudy on 25 <sup>th</sup> then mainly cloudy to cloudy upto 29 <sup>th</sup> with
Sept. No rainfall was recorded during past four days.	maximum temp. of 30.0 - 33.0 °C and minimum temp. of 21.0
Maximum temperature range observed was 30.4 – 34.0 °C,	– 23.0 °C. The maximum RH may attain max of 100 % and
range of minimum temperature observed was 20.0 - 22.0	minimum RH of 77 %. The average wind speed during next
°C, mean relative humidity observed in morning and	five days may be 0-2 km/hr.
afternoon were 90.75 % and 63.75 % respectively. The	
average wind speed range was 0.9 – 1.8 km/hr.	

Weather Forecast for next 3 days (upto 0830 hours IST of 27<sup>th</sup> September, 2013) Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			J
* Sprayers used t	o spray weedicide m	ust not be used for spray	ring of insecticides or pesticides. Insecticides and pesticides must not be
combined while s	spraying. Farmers are	e advised to add stickers	@ 5ml/ pump.
* All sprays men	tioned below must be	e done if there is probabi	ility of no rains for 2-3 hrs.
			- After rains, weed out and top dress with remaining urea dose @ 33 Kg/
Rice	Panicle initiation		ha at panicle initiation stage. Fertilizer must be applied after proper
	to flowering		draining and weeding. Water should be maintained at 5cm level upto
			dough stage.
			- Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in
			flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of
		C	water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf	Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		folder, whorl maggot	
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Plant hopper or any	Imidachloprid @ 7ml/ 15 litres of water.
		sucking insect	
Soybean	Pod formation		- Weeding may be done after rains.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging		- Earthing up must be done at peg formation stage done after rains.
		Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Blackgram /	Vegetative to	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
rice bean	flowering		- Weeding may be done after rains.
Storage	-		- Clean and store the seeds in RC-seed bins after proper drying. Check for
C			germination of seeds or fungal growth.
Horticulture Cro	ps		





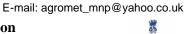
# "Integrated Agromet Advisory Services"

Ginger/	Rhizome	- Leaf blotch & Leaf	- After rains, spray Mancozeb @ 2 g/ lit of water at 15 to 10 days interval
Turmeric	formation	Spot	depending upon the severity of incidence.
		- Shoot borer	- Apply Malathion @ 2ml/lit of water or Monocrotophos @ 1 ml/litre of
			water twice at 7 – 10 days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be
			started depending upon the field condition. Prepared beds must be
			exposed to sun for at least 10-15 days before sowing. Select varieties
Dutatel	Flowering to	Fruit and shoot borer	<ul><li>having duration of 100-110 days.</li><li>Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.</li></ul>
Brinjal	fruiting	Fruit and shoot borer	- Spray Denamethrin @ 7 mi/ 10 m of water after rams.
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables			radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/	Land preparation		- Sowing of pea/ French bean/ broad bean may be done in upland area
french bean/			after rains.
broad bean			
Animal Science			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
Duckery	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
			with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
	of age		
Pig	Above 3 months	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
	of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite	- Spray Topicure solution, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries			<del>_</del>
	ond with happa ne	et to avoid escape of fi	shes from pond due to water overflow during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of
1			RCD @1000kg/ha. If colour & odour of changes then half of the pond
			water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth
			should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a
			day. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish	Water		Water depth of the trenches in paddy field should be maintained at 1.0m.
culture			Rice bran and mustard oil cake (1:1) can be provided as supplementary feed
			Application of insecticide/pesticide should be prohibited in paddy cum fish
Cat finit	Denderat		culture.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-
(Ngakra)			10000 fingerlings can be stocked/ ha. Water depth should be maintained at $0.5m$ 0.8m for purceries. Pende should be manured with PCD @
			0.5m -0.8m for nurseries. Ponds should be manured with RCD @
	Feed		5000kg/ha at initial and 500-800kg/ha at 15 days interval Feed with high protein content 35-40% CP should be given @ 5-8% body
	1000		weight.

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray Kocide @5g/15lit water. Pig: Coccidiosis- Piperazine liq @10ml

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





## "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 24<sup>th</sup> September, 2013

### 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 25<sup>th</sup> to 29<sup>th</sup> September, 2013 as given below:

 dujs, nei, nom 25° to 25° September, 2015 us given below.	
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal (25 <sup>th</sup> to 29 <sup>th</sup>
Imphal - West (20 <sup>th</sup> to 23 <sup>rd</sup> September, 2013)	September, 2013)
During the past four days the sky was mainly cloudy to	It is likely to rains during next five days. The sky may be partly
cloudy but mainly clear from afternoon hours of 21 <sup>st</sup> to 22 <sup>nd</sup>	cloudy on 25 <sup>th</sup> then mainly cloudy to cloudy upto 29 <sup>th</sup> with
Sept. No rainfall was recorded during past four days.	maximum temp. of 29.0 - 32.0 °C and minimum temp. of 18.0
Maximum temperature range observed was 30.4 – 34.0 °C,	– 20.0 °C. The maximum RH may attain max of 100 % and
range of minimum temperature observed was 20.0 - 22.0	minimum RH of 92 %. The average wind speed during next
°C, mean relative humidity observed in morning and	five days may be 2-4 km/hr.
afternoon were 90.75 % and 63.75 % respectively. The	
average wind speed range was 0.9 - 1.8 km/hr.	

Weather Forecast for next 3 days (upto 0830 hours IST of 27<sup>th</sup> September, 2013) Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			J
		ust not be used for spray advised to add stickers	ing of insecticides or pesticides. Insecticides and pesticides must not be
			ility of no rains for 2-3 hrs.
· All sprays men		e done il diele is probabi	- After rains, weed out and top dress with remaining urea dose @ 33 Kg/
Rice	Panicle initiation		ha at panicle initiation stage. Fertilizer must be applied after proper
NICE	to flowering		draining and weeding. Water should be maintained at 5cm level upto
	to nowening		dough stage.
			- Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in
		Sinut disease of fice	flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of
		Sheath Dirght/ Dakam	water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf	Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		folder, whorl maggot	Lambdaeynounni @ 15mi/ 15 mie of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Plant hopper or any	Imidachloprid @ 7ml/ 15 litres of water.
		sucking insect	
Soybean	Pod formation	Ŭ	- Weeding may be done after rains.
·		Rust	- Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging		- Earthing up must be done at peg formation stage done after rains.
		Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Blackgram /	Vegetative to	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
rice bean	flowering		- Weeding may be done after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
			germination of seeds or fungal growth.
Horticulture Cro	ps		

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



# "Integrated Agromet Advisory Services"

Ginger/	Rhizome	- Leaf blotch & Leaf	- After rains, spray Mancozeb @ 2 g/lit of water at 15 to 10 days interval
Turmeric	formation	Spot	depending upon the severity of incidence.
		- Shoot borer	- Apply Malathion @ 2ml/lit of water or Monocrotophos @ 1 ml/litre of
			water twice at $7 - 10$ days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be
			started depending upon the field condition. Prepared beds must be
			exposed to sun for at least 10-15 days before sowing. Select varieties
			having duration of 100-110 days.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables	Luid propulation		radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/	Land preparation		- Sowing of pea/ French bean/ broad bean may be done in upland area
french bean/			after rains.
broad bean			
Animal Science		T	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
Duckery	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
			with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
	of age		
Pig	Above 3 months	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
	of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite	- Spray Topicure solution, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries			
	ond with happa ne	et to avoid escape of fi	shes from pond due to water overflow during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of
			RCD @1000kg/ha. If colour & odour of changes then half of the pond
			water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth
			should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a
			day. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish	Water		Water depth of the trenches in paddy field should be maintained at 1.0m.
culture			Rice bran and mustard oil cake (1:1) can be provided as supplementary feed
			Application of insecticide/pesticide should be prohibited in paddy cum fish
			culture.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-
(Ngakra)			10000 fingerlings can be stocked/ ha. Water depth should be maintained at $0.5\pi$ , $0.8\pi$ for surgering Panda should be manual with PCD (2)
			0.5m -0.8m for nurseries. Ponds should be manured with RCD @
	Feed		5000kg/ha at initial and 500-800kg/ha at 15 days interval
	геец		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.
			weight.

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray Kocide @5g/15lit water. Pig: Coccidiosis- Piperazine liq @10ml

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



## "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 24<sup>th</sup> September, 2013

### Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 25<sup>th</sup> to 29<sup>th</sup> September, 2013 as given below:

e dajs, nen, neni 25 - to 27 - September, 2015 as given below.				
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul (25 <sup>th</sup> to 29 <sup>th</sup>			
Imphal - West (20 <sup>th</sup> to 23 <sup>rd</sup> September, 2013)	September, 2013)			
During the past four days the sky was mainly cloudy to				
cloudy but mainly clear from afternoon hours of 21 <sup>st</sup> to 22 <sup>nd</sup>	cloudy on 25 <sup>th</sup> then mainly cloudy to cloudy upto 29 <sup>th</sup> with			
Sept. No rainfall was recorded during past four days.	maximum temp. of 26.0 - 29.0 °C and minimum temp. of 16.0			
Maximum temperature range observed was 30.4 – 34.0 °C,	– 19.0 °C. The maximum RH may attain max of 100 % and			
range of minimum temperature observed was 20.0 - 22.0	minimum RH of 87 %. The average wind speed during next			
°C, mean relative humidity observed in morning and	five days may be 2 km/hr.			
afternoon were 90.75 % and 63.75 % respectively. The				
average wind speed range was 0.9 - 1.8 km/hr.				

Weather Forecast for next 3 days (upto 0830 hours IST of 27<sup>th</sup> September, 2013) Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			J
			ing of insecticides or pesticides. Insecticides and pesticides must not be
		advised to add stickers	
* All sprays ment	toned below must be	e done if there is probabi	ility of no rains for 2-3 hrs.
Rice	D 1 1 1 1 1		- After rains, weed out and top dress with remaining urea dose @ 33 Kg/
	Panicle initiation		ha at panicle initiation stage. Fertilizer must be applied after proper
	to flowering		draining and weeding. Water should be maintained at 5cm level upto
			dough stage.
		~	- Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in
			flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of
		-	water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf	Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		folder, whorl maggot	
		Gall midge	Thiomethoxam @ $5g/15$ lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
Soybean	Pod formation		- Weeding may be done after rains.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging		- Earthing up must be done at peg formation stage done after rains.
		Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Blackgram /	Vegetative to	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
rice bean	flowering		- Weeding may be done after rains.
Storage	-		- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ps	1	





# "Integrated Agromet Advisory Services"

Ginger/	Rhizome	- Leaf blotch & Leaf	- After rains, spray Mancozeb @ 2 g/lit of water at 15 to 10 days interval
Turmeric	formation	Spot	depending upon the severity of incidence.
		- Shoot borer	- Apply Malathion @ 2ml/lit of water or Monocrotophos @ 1 ml/litre of
			water twice at 7 – 10 days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be
			started depending upon the field condition. Prepared beds must be
			exposed to sun for at least 10-15 days before sowing. Select varieties
			having duration of 100-110 days.
Brinjal	Flowering to	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.
D 11	fruiting		
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables Garden pea/	Land preparation		<ul><li>radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.</li><li>Sowing of pea/ French bean/ broad bean may be done in upland area</li></ul>
french bean/	Land preparation		after rains.
broad bean			anei rains.
Animal Science	es	- <b>I</b>	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
Duckery	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
		P	with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be
		U	administered.
Sheep/ Goat	Above 3 months	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
-	of age	_	
Pig	Above 3 months	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
	of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
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		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries			
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Type of Farming	Stage	Management	Agro-metrological advisories
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Carp culture	GIOW Out	I olid water	RCD @1000kg/ha. If colour & odour of changes then half of the pond
			water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth
	1,01501105		should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a
			day. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish	Water		Water depth of the trenches in paddy field should be maintained at 1.0m.
culture			Rice bran and mustard oil cake (1:1) can be provided as supplementary feed
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			culture.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-
(Ngakra)			10000 fingerlings can be stocked/ ha. Water depth should be maintained at
			0.5m -0.8m for nurseries. Ponds should be manured with RCD @
			5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body
			weight.

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray Kocide @5g/15lit water. Pig: Coccidiosis- Piperazine liq @10ml