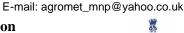
HIPOTER ICAR

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





## "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 20<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 21<sup>st</sup> to 25<sup>th</sup> September, 2013 as given below:

1	duys, i.e., from 21 to 25 September, 2015 us given below.	
	Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel (21 <sup>st</sup> to 25 <sup>th</sup>
	Imphal - West (13 <sup>th</sup> to 16 <sup>th</sup> September, 2013)	September, 2013)
	During the past three days the sky was mainly cloudy to	It is likely to have light to moderate rains during upto 22 <sup>nd</sup> then
	cloudy but partly cloudy during afternoon hours of 18 <sup>th</sup>	light rains upto 25 <sup>th</sup> September. The sky may be mainly cloudy
	Sept. <b>0.5 mm</b> rainfall was recorded during past three days.	to cloudy upto 22 <sup>nd</sup> then partly cloudy upto 25 <sup>th</sup> September
	Maximum temperature range observed was 27.2 – 31.8 °C,	with maximum temp. of 30.0 - 33.0 °C and minimum temp. of
	range of minimum temperature observed was 21.4 - 22.1	21.0 - 22.0 °C. The maximum RH may attain max of 98 % and
	<sup>o</sup> C, mean relative humidity observed in morning and	minimum RH of 70 %. The average wind speed during next
	afternoon were 92.0 % and 76.67 % respectively. The	five days may be 3-4 km/hr.
	average wind speed range was 1.8 – 1.9 km/hr.	

Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013) Rain/thundershowers would occur at isolated places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			·
		ust not be used for spray advised to add stickers	
Rice	Panicle initiation to flowering		<ul> <li>After 22<sup>nd</sup> Sept, 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.</li> <li>Weeding must be done before flowering stage.</li> </ul>
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		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	Flowering to pod formation	Hairy caterpillars Rust	<ul> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	<ul> <li>Earthing up must be done at peg formation stage done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Redomil75% MZ @ 15g/ 15litre water.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Blackgram / rice bean	Vegetative	Hairy caterpillars	<ul> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> </ul>
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"

/ Captan @ 2g ables may be s d preparation d preparation ting es above 7yrs Bearing plants wth stage susceptible groups l susceptible age group ve 3 months	g/kg seed.	nursery bed with Carbendazim@ 2-3g/ lit water. Seed may be treated with he plots where crops (like colocassia/ maize, etc.) had just been harvested. Procure good quality seeds of. Prepare land for sowing or planting carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains. - Sowing of pea/ French bean may be done in upland area. In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days, spray Tridemephon @ 7g/15 lit of water. And after 14 days these two sprays may be repeated as required. Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant. <b>Agro-meteorological advisories</b> - Spray Butox over the flock @ 3ml in 1 lit of water once a week. - Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds. - Administer <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days. - Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
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age group we 3 months		- Piperazine liquid @ 40ml/ 100 birds in drinking water may be
ve 3 months		administered.
ge	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
ve 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
ttle / Buffalo/ Above 3 months of age	Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval.
	B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
with happa ne	et to avoid escape of fis	shes from pond due to water overflow during rainy days.
ge	Management	Agro-metrological advisories
w-out	Pond water	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
series		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
er	1	Maintain 1.0m water depth in the trenches/ structures made for fish culture in paddy cum fish culture practice. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/ pesticide sprays on crops.
		Water depth should be maintained at 0.5m -0.8m for nurseries
d and water		Feed with high protein content 35-40% CP should be given @ 5-8%
	r and water	r

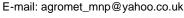
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ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

Groundnut: earthing up at pegging stage.

HIP-DERI ICAR

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





## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 20<sup>th</sup> September, 2013

#### Churachandpur

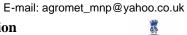
IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 21<sup>st</sup> to 25<sup>th</sup> September, 2013 as given below:

 dujs, nei, nom 21 to 25 September, 2015 us given berow.	
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur (21 <sup>st</sup> to
Imphal - West (13 <sup>th</sup> to 16 <sup>th</sup> September, 2013)	$25^{\text{th}}$ September, 2013)
During the past three days the sky was mainly cloudy to	It is likely to have light to moderate rains during upto 22 <sup>nd</sup> then
cloudy but partly cloudy during afternoon hours of 18 <sup>th</sup>	light rains upto 25 <sup>th</sup> September. The sky may be mainly cloudy
Sept. <b>0.5 mm</b> rainfall was recorded during past three days.	to cloudy upto 22 <sup>nd</sup> then partly cloudy upto 25 <sup>th</sup> September
Maximum temperature range observed was 27.2 – 31.8 °C,	with maximum temp. of 29.0 - 31.0 °C and minimum temp. of
range of minimum temperature observed was 21.4 - 22.1	20.0 – 22.0 °C. The maximum RH may attain max of 100 %
<sup>o</sup> C, mean relative humidity observed in morning and	and minimum RH of 63 %. The average wind speed during
afternoon were 92.0 % and 76.67 % respectively. The	next five days may be 2-3 km/hr.
average wind speed range was 1.8 – 1.9 km/hr.	

Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013) Rain/thundershowers would occur at isolated places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		1	
		ust not be used for spray advised to add stickers	
Rice	Panicle initiation to flowering		<ul> <li>After 22<sup>nd</sup> Sept, 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.</li> <li>Weeding must be done before flowering stage.</li> </ul>
		Sheath rot Sheath blight/ Bakani	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Borer Case worm, leaf	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		folder, whorl maggot	
		Gall midge Bacterial leaf blight	Thiomethoxam @ 5g/ 15 lit water.         Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).         Unide blandid @ 7ml/ 15 litres of matter.
		Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
Soybean	Flowering to pod formation	Hairy caterpillars Rust	<ul> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	<ul> <li>Earthing up must be done at peg formation stage done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Redomil75% MZ @ 15g/ 15litre water.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Blackgram / rice bean	Vegetative	Hairy caterpillars	<ul> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> </ul>
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"

Horticulture Cro			
* To prevent dan	nping off diseases of	vegetables, treat soil of	nursery bed with Carbendazim@ 2-3g/ lit water. Seed may be treated with
	hiram/ Captan @ 2g		
- Sowing of rabi		tarted without delay in the	he plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables			reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in upland area.
Cucurbits (cucumber, bottle gourd, pumpkin) and Tomato	Fruiting	Powdery mildew (dirty white to grey coloured powder) and Anthracnose (light brown to black elongated streak)	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days, spray Tridemephon @ 7g/15 lit of water. And after 14 days these two sprays may be repeated as required.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Science	es	L.	
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.
	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
Duckery	All susceptible age group	Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		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		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries			
	ond with hanna 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	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Maintain 1.0m water depth in the trenches/ structures made for fish culture in paddy cum fish culture practice. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/ pesticide sprays on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.
SMS:	u		

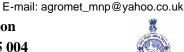
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## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 20<sup>th</sup> September, 2013

## Imphal-East

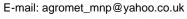
IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 21<sup>st</sup> to 25<sup>th</sup> September, 2013 as given below:

dujs, nei, nom 21 to 25 september, 2015 us given below.	
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - East (21 <sup>st</sup> to
Imphal - West (13 <sup>th</sup> to 16 <sup>th</sup> September, 2013)	$25^{\text{th}}$ September, 2013)
During the past three days the sky was mainly cloudy to	It is likely to have light to moderate rains during upto 22 <sup>nd</sup> then
cloudy but partly cloudy during afternoon hours of 18th	light rains upto 25 <sup>th</sup> September. The sky may be mainly cloudy
Sept. <b>0.5 mm</b> rainfall was recorded during past three days.	to cloudy upto 22 <sup>nd</sup> then partly cloudy upto 25 <sup>th</sup> September
Maximum temperature range observed was 27.2 – 31.8 °C,	with maximum temp. of 29.0 - 32.0 °C and minimum temp. of
range of minimum temperature observed was 21.4 - 22.1	21.0 – 22.0 °C. The maximum RH may attain max of 100 %
°C, mean relative humidity observed in morning and	and minimum RH of 83 %. The average wind speed during
afternoon were 92.0 % and 76.67 % respectively. The	next five days may be 2-4 km/hr.
average wind speed range was 1.8 – 1.9 km/hr.	
	<ul> <li>Significant past weather for the preceding bi-weekly of Imphal - West (13<sup>th</sup> to 16<sup>th</sup> September, 2013)</li> <li>During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 18<sup>th</sup> Sept. <b>0.5 mm</b> rainfall was recorded during past three days. Maximum temperature range observed was 27.2 – 31.8 °C, range of minimum temperature observed was 21.4 – 22.1 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 76.67 % respectively. The</li> </ul>

Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013) Rain/thundershowers would occur at isolated places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
		ust not be used for spray e advised to add stickers	
Rice	Panicle initiation to flowering		<ul> <li>After 22<sup>nd</sup> Sept, 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.</li> <li>Weeding must be done before flowering stage.</li> </ul>
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		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	Flowering to pod formation	Hairy caterpillars Rust	<ul> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	<ul> <li>Earthing up must be done at peg formation stage done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Redomil75% MZ @ 15g/ 15litre water.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Blackgram / rice bean	Vegetative	Hairy caterpillars	<ul> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> </ul>
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"

Horticulture Cro			
* To prevent dan	nping off diseases of	vegetables, treat soil of	nursery bed with Carbendazim@ 2-3g/ lit water. Seed may be treated with
	'hiram/ Captan @ 2g		
- Sowing of rabi		tarted without delay in the	he plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables			reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in upland area.
Cucurbits (cucumber, bottle gourd, pumpkin) and Tomato	Fruiting	Powdery mildew (dirty white to grey coloured powder) and Anthracnose (light brown to black elongated streak)	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days, spray Tridemephon @ 7g/15 lit of water. And after 14 days these two sprays may be repeated as required.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Science	es	- <b>1</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.
	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
Duckery	All susceptible age group	Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		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		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries		1	
	ond with hanna 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	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Maintain 1.0m water depth in the trenches/ structures made for fish culture in paddy cum fish culture practice. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/ pesticide sprays on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.
SMS:	ll.		

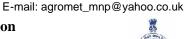
SMS:

ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

Groundnut: earthing up at pegging stage.

HIP-DERI ICAR

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





## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 20<sup>th</sup> September, 2013

### Imphal-West

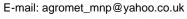
IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 21<sup>st</sup> to 25<sup>th</sup> September, 2013 as given below:

september, 2015 us given below.	
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - West (21 <sup>st</sup> to
Imphal - West (13 <sup>th</sup> to 16 <sup>th</sup> September, 2013)	$25^{\text{th}}$ September, 2013)
During the past three days the sky was mainly cloudy to	It is likely to have light to moderate rains during upto 22 <sup>nd</sup> then
cloudy but partly cloudy during afternoon hours of 18 <sup>th</sup>	light rains upto 25 <sup>th</sup> September. The sky may be mainly cloudy
Sept. <b>0.5 mm</b> rainfall was recorded during past three days.	to cloudy upto 22 <sup>nd</sup> then partly cloudy upto 25 <sup>th</sup> September
Maximum temperature range observed was 27.2 – 31.8 °C,	with maximum temp. of 30.0 - 32.0 °C and minimum temp. of
range of minimum temperature observed was 21.4 - 22.1	21.0 - 22.0 °C. The maximum RH may attain max of 100 %
<sup>o</sup> C, mean relative humidity observed in morning and	and minimum RH of 75 %. The average wind speed during
afternoon were 92.0 % and 76.67 % respectively. The	next five days may be 2-4 km/hr.
average wind speed range was 1.8 – 1.9 km/hr.	

Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013) Rain/thundershowers would occur at isolated places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		1	
		ust not be used for spray advised to add stickers	
Rice	Panicle initiation to flowering		<ul> <li>After 22<sup>nd</sup> Sept, 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.</li> <li>Weeding must be done before flowering stage.</li> </ul>
		Sheath rot Sheath blight/ Bakani	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Borer Case worm, leaf	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. 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 Plant hopper or any sucking insect	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam). Imidachloprid @ 7ml/ 15 litres of water.
Soybean	Flowering to pod formation	Hairy caterpillars Rust	<ul> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	<ul> <li>Earthing up must be done at peg formation stage done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Redomil75% MZ @ 15g/ 15litre water.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Blackgram / rice bean	Vegetative	Hairy caterpillars	<ul> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> </ul>
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"

Horticulture Cro			
* To prevent dan	nping off diseases of	vegetables, treat soil of	nursery bed with Carbendazim@ 2-3g/ lit water. Seed may be treated with
	'hiram/ Captan @ 2g		
- Sowing of rabi		tarted without delay in the	he plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables			reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in upland area.
Cucurbits (cucumber, bottle gourd, pumpkin) and Tomato	Fruiting	Powdery mildew (dirty white to grey coloured powder) and Anthracnose (light brown to black elongated streak)	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days, spray Tridemephon @ 7g/15 lit of water. And after 14 days these two sprays may be repeated as required.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
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.
	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
Duckery	All susceptible age group	Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		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		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries		1	
	ond with hanna 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	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Maintain 1.0m water depth in the trenches/ structures made for fish culture in paddy cum fish culture practice. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/ pesticide sprays on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.
SMS:	ll.		

SMS:

ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

Groundnut: earthing up at pegging stage.

HIDDRE LAT

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## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 20<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 21<sup>st</sup> to 25<sup>th</sup> September, 2013 as given below:

september, 2015 us given below.	
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati (21 <sup>st</sup> to 25 <sup>th</sup>
Imphal - West (13 <sup>th</sup> to 16 <sup>th</sup> September, 2013)	September, 2013)
During the past three days the sky was mainly cloudy to	It is likely to have light to moderate rains during upto 22 <sup>nd</sup> then
cloudy but partly cloudy during afternoon hours of 18 <sup>th</sup>	light rains upto 25 <sup>th</sup> September. The sky may be mainly cloudy
Sept. <b>0.5 mm</b> rainfall was recorded during past three days.	to cloudy upto 22 <sup>nd</sup> then partly cloudy upto 25 <sup>th</sup> September
Maximum temperature range observed was 27.2 – 31.8 °C,	with maximum temp. of 27.0 - 29.0 °C and minimum temp. of
range of minimum temperature observed was 21.4 – 22.1	18.0 - 20.0 °C. The maximum RH may attain max of 99 % and
<sup>o</sup> C, mean relative humidity observed in morning and	minimum RH of 77 %. The average wind speed during next
afternoon were 92.0 % and 76.67 % respectively. The	five days may be 2-4 km/hr.
average wind speed range was 1.8 – 1.9 km/hr.	

Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013) Rain/thundershowers would occur at isolated places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		1	
		ust not be used for spray e advised to add stickers	
Rice	Panicle initiation to flowering		<ul> <li>After 22<sup>nd</sup> Sept, 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.</li> <li>Weeding must be done before flowering stage.</li> </ul>
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		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	Flowering to pod formation	Hairy caterpillars Rust	<ul> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	<ul> <li>Earthing up must be done at peg formation stage done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Redomil75% MZ @ 15g/ 15litre water.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Blackgram / rice bean	Vegetative	Hairy caterpillars	<ul> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> </ul>
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"

Horticulture Cro	ps		
* To prevent dan	nping off diseases of	vegetables, treat soil of	nursery bed with Carbendazim@ 2-3g/ lit water. Seed may be treated with
	hiram/ Captan @ 2g		
- Sowing of rabi	vegetables may be s	tarted without delay in th	ne plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables			reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in upland area.
Cucurbits	Fruiting	Powdery mildew (dirty	To some field as well as in min sheldered areas to control these discover
(cucumber, bottle	Fruiting	white to grey coloured	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days,
gourd, pumpkin)		powder) and	spray Tridemephon @ $7g/15$ lit of water. And after 14 days these two
and Tomato		Anthracnose (light brown to black	sprays may be repeated as required.
		elongated streak)	
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
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.
	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
			with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
Duckery	All susceptible age group	Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be 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	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 Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries			
* Encircle the p	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	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for
			15 days
Paddy cum fish	Water		Maintain 1.0m water depth in the trenches/ structures made for fish
culture			culture in paddy cum fish culture practice. Rice bran and mustard oil
			cake (1:1) can be provided as supplementary feed. Avoid insecticide/
			pesticide sprays on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.
SMS:			bouy weight

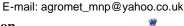
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ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

Groundnut: earthing up at pegging stage.

HIDDRE 241

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





## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 20<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 21<sup>st</sup> to 25<sup>th</sup> September, 2013 as given below:

1,00	days, i.e., from 21 to 25 September, 2015 as given below.	
	Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong (21 <sup>st</sup> to
	Imphal - West (13 <sup>th</sup> to 16 <sup>th</sup> September, 2013)	$25^{\text{th}}$ September, 2013)
	During the past three days the sky was mainly cloudy to	It is likely to have light to moderate rains during upto 22 <sup>nd</sup> then
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	range of minimum temperature observed was 21.4 - 22.1	21.0 – 23.0 °C. The maximum RH may attain max of 100 %
	°C, mean relative humidity observed in morning and	and minimum RH of 66 %. The average wind speed during
	afternoon were 92.0 % and 76.67 % respectively. The	next five days may be 2-4 km/hr.
	average wind speed range was 1.8 - 1.9 km/hr.	

Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013) Rain/thundershowers would occur at isolated places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		1	
		ust not be used for spray advised to add stickers	
Rice	Panicle initiation to flowering		<ul> <li>After 22<sup>nd</sup> Sept, weed out and top dress with remaining urea dose @ 33</li> <li>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.</li> <li>Weeding must be done before flowering stage.</li> </ul>
		Sheath rot Sheath blight/ Bakani	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Borer Case worm, leaf	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. 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 Plant hopper or any sucking insect	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).Imidachloprid @ 7ml/ 15 litres of water.
Soybean	Flowering to pod formation	Hairy caterpillars Rust	<ul> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	<ul> <li>Earthing up must be done at peg formation stage done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Redomil75% MZ @ 15g/ 15litre water.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Blackgram / rice bean	Vegetative	Hairy caterpillars	<ul> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> </ul>
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"

Horticulture Cro			
			nursery bed with Carbendazim@ 2-3g/ lit water. Seed may be treated with
	hiram/ Captan @ 2g		
- Sowing of rabi		tarted without delay in the	he plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables			reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in upland area.
Cucurbits (cucumber, bottle gourd, pumpkin) and Tomato	Fruiting	Powdery mildew (dirty white to grey coloured powder) and Anthracnose (light brown to black elongated streak)	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ $2g$ / lit of water. Then after 7days, spray Tridemephon @ $7g/15$ lit of water. And after 14 days these two sprays may be repeated as required.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
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.
	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
Duckery	All susceptible age group	Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be 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	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 Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries		1	,
* Encircle the p	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	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Maintain 1.0m water depth in the trenches/ structures made for fish culture in paddy cum fish culture practice. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/ pesticide sprays on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8%

SMS:

ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

Groundnut: earthing up at pegging stage.

HIGHE 241

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



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## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 20<sup>th</sup> September, 2013

### Thoubal

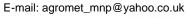
IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 21<sup>st</sup> to 25<sup>th</sup> September, 2013 as given below:

the duys, i.e., from 21 to 25 beptember, 2015 us given below.	
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal (21 <sup>st</sup> to 25 <sup>th</sup>
Imphal - West (13 <sup>th</sup> to 16 <sup>th</sup> September, 2013)	September, 2013)
During the past three days the sky was mainly cloudy to	It is likely to have light to moderate rains during upto 22 <sup>nd</sup> then
cloudy but partly cloudy during afternoon hours of 18 <sup>th</sup>	light rains upto 25 <sup>th</sup> September. The sky may be mainly cloudy
Sept. <b>0.5 mm</b> rainfall was recorded during past three days.	to cloudy upto 22 <sup>nd</sup> then partly cloudy upto 25 <sup>th</sup> September
Maximum temperature range observed was 27.2 – 31.8 °C,	with maximum temp. of 30.0 - 32.0 °C and minimum temp. of
range of minimum temperature observed was 21.4 - 22.1	20.0 - 22.0 °C. The maximum RH may attain max of 99 % and
<sup>o</sup> C, mean relative humidity observed in morning and	minimum RH of 78 %. The average wind speed during next
afternoon were 92.0 % and 76.67 % respectively. The	five days may be 4 km/hr.
average wind speed range was 1.8 – 1.9 km/hr.	

Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013) Rain/thundershowers would occur at isolated places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		1	
		ust not be used for spray e advised to add stickers	
Rice	Panicle initiation to flowering		<ul> <li>After 22<sup>nd</sup> Sept, 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.</li> <li>Weeding must be done before flowering stage.</li> </ul>
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		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	Flowering to pod formation	Hairy caterpillars Rust	<ul> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	<ul> <li>Earthing up must be done at peg formation stage done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Redomil75% MZ @ 15g/ 15litre water.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Blackgram / rice bean	Vegetative	Hairy caterpillars	<ul> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> </ul>
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"

Horticulture Cro	pps		
			nursery bed with Carbendazim@ 2-3g/ lit water. Seed may be treated with
	hiram/ Captan @ 2g		
- Sowing of rabi	vegetables may be s	tarted without delay in th	he plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables			reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/	Land preparation		- Sowing of pea/ French bean may be done in upland area.
french bean			
Cucurbits (cucumber, bottle gourd, pumpkin) and Tomato	Fruiting	Powdery mildew (dirty white to grey coloured powder) and Anthracnose (light brown to black elongated streak)	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days, spray Tridemephon @ 7g/15 lit of water. And after 14 days these two sprays may be repeated as required.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
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.
	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
Duckery	All susceptible age group	Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be 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.
0	of age	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 Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries	<u> </u>		
	ond with hanna ne	t to avoid escape of fig	shes from pond due to water overflow during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Maintain 1.0m water depth in the trenches/ structures made for fish culture in paddy cum fish culture practice. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/ pesticide sprays on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.
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SMS:

ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

Groundnut: earthing up at pegging stage.

HIGHE 241

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



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## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 20<sup>th</sup> September, 2013

### Ukhrul

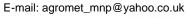
IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 21<sup>st</sup> to 25<sup>th</sup> September, 2013 as given below:

1	duys, i.e., from 21 to 25 September, 2015 as given below.	
	Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul (21 <sup>st</sup> to 25 <sup>th</sup>
	Imphal - West (13 <sup>th</sup> to 16 <sup>th</sup> September, 2013)	September, 2013)
	During the past three days the sky was mainly cloudy to	It is likely to have light to moderate rains during upto 22 <sup>nd</sup> then
	cloudy but partly cloudy during afternoon hours of 18 <sup>th</sup>	light rains upto 25 <sup>th</sup> September. The sky may be mainly cloudy
	Sept. <b>0.5 mm</b> rainfall was recorded during past three days.	to cloudy upto 22 <sup>nd</sup> then partly cloudy upto 25 <sup>th</sup> September
	Maximum temperature range observed was 27.2 – 31.8 °C,	with maximum temp. of 25.0 - 28.0 °C and minimum temp. of
	range of minimum temperature observed was 21.4 - 22.1	16.0 – 19.0 °C. The maximum RH may attain max of 97 % and
	°C, mean relative humidity observed in morning and	minimum RH of 66 %. The average wind speed during next
	afternoon were 92.0 % and 76.67 % respectively. The	five days may be 2-4 km/hr.
	average wind speed range was 1.8 – 1.9 km/hr.	

Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013) Rain/thundershowers would occur at isolated places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
		ust not be used for spray advised to add stickers	
Rice	Panicle initiation to flowering		<ul> <li>After 22<sup>nd</sup> Sept, 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.</li> <li>Weeding must be done before flowering stage.</li> </ul>
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		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	Flowering to pod formation	Hairy caterpillars Rust	<ul> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	<ul> <li>Earthing up must be done at peg formation stage done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Redomil75% MZ @ 15g/ 15litre water.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Blackgram / rice bean	Vegetative	Hairy caterpillars	<ul> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> </ul>
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"

Horticulture Cro	pps		
			nursery bed with Carbendazim@ 2-3g/ lit water. Seed may be treated with
	hiram/ Captan @ 2g		
- Sowing of rabi	vegetables may be s	tarted without delay in th	he plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables			reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/	Land preparation		- Sowing of pea/ French bean may be done in upland area.
french bean			
Cucurbits (cucumber, bottle gourd, pumpkin) and Tomato	Fruiting	Powdery mildew (dirty white to grey coloured powder) and Anthracnose (light brown to black elongated streak)	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days, spray Tridemephon @ 7g/15 lit of water. And after 14 days these two sprays may be repeated as required.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
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.
	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
Duckery	All susceptible age group	Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be 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.
0	of age	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 Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries	<u> </u>		
	ond with hanna ne	t to avoid escape of fig	shes from pond due to water overflow during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Maintain 1.0m water depth in the trenches/ structures made for fish culture in paddy cum fish culture practice. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/ pesticide sprays on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.
SMS:	J		

SMS:

ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

Groundnut: earthing up at pegging stage.

HIDDRE LAT

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## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 20<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 21<sup>st</sup> to 25<sup>th</sup> September, 2013 as given below:

Weather forecast for next five days of Bishnupur (21 <sup>st</sup> to 25 <sup>th</sup>
September, 2013)
It is likely to have light to moderate rains during upto $22^{nd}$ then
light rains upto 25 <sup>th</sup> September. The sky may be mainly cloudy
to cloudy upto 22 <sup>nd</sup> then partly cloudy upto 25 <sup>th</sup> September
, with maximum temp. of 29.0 - 31.0 $^{\circ}$ C and minimum temp. of
19.0 - 21.0 °C. The maximum RH may attain max of 99 % and
minimum RH of 71 %. The average wind speed during next
e five days may be 2-4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013) Rain/thundershowers would occur at isolated places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1	1	·
		ust not be used for spray advised to add stickers	
Rice	Panicle initiation to flowering		<ul> <li>After 22<sup>nd</sup> Sept, 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.</li> <li>Weeding must be done before flowering stage.</li> </ul>
		Sheath rot Sheath blight/ Bakani	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of
		Borer Case worm, leaf	water.Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		folder, whorl maggot Gall midge Bacterial leaf blight	Thiomethoxam @ 5g/ 15 lit water. 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	Flowering to pod formation	Hairy caterpillars Rust	<ul> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	<ul> <li>Earthing up must be done at peg formation stage done after 22<sup>nd</sup> Sept.</li> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Redomil75% MZ @ 15g/ 15litre water.</li> <li>Bayleton @ 10g/ 15 ml of water.</li> </ul>
Blackgram / rice bean	Vegetative	Hairy caterpillars	<ul> <li>Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>Weeding may be done after 22<sup>nd</sup> Sept.</li> </ul>
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"

Horticulture Cro	ps		
* To prevent dan	nping off diseases of	vegetables, treat soil of	nursery bed with Carbendazim@ 2-3g/ lit water. Seed may be treated with
	hiram/ Captan @ 2g		
- Sowing of rabi	vegetables may be s	tarted without delay in th	ne plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot,
vegetables			reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in upland area.
Cucurbits	Fruiting	Powdery mildew (dirty	In open field as well as in min sheltered ereas, to control these discourses
(cucumber, bottle	Tutting	white to grey coloured	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days,
gourd, pumpkin)		powder) and	spray Tridemephon @ $7g/15$ lit of water. And after 14 days these two
and Tomato		Anthracnose (light brown to black	sprays may be repeated as required.
Tree bean	Trees above 7yrs age/ Bearing plants	elongated streak)	Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
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.
	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
	001		with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
Duckery	All susceptible age group	Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be 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	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.
Mithun		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Fisheries	1	1	
* Encircle the p	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	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be
			provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish	Water		Maintain 1.0m water depth in the trenches/ structures made for fish
culture			culture in paddy cum fish culture practice. Rice bran and mustard oil
			cake (1:1) can be provided as supplementary feed. Avoid insecticide/
			pesticide sprays on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8%
SMS:			body weight.

SMS:

ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

Groundnut: earthing up at pegging stage.