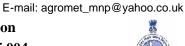
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



#### "Integrated Agromet Advisory Services"

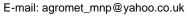
### MANIPUR BULLETIN 13<sup>th</sup> September, 2013

#### Bishnupur

the days, ne., nom 11 to 10 september, 2015 as given below.	
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur (14 <sup>th</sup> to 18 <sup>th</sup>
Imphal - West (10 <sup>th</sup> to 12 <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 upto 18 <sup>th</sup> September.
cloudy but partly cloudy during afternoon hours of 12 <sup>th</sup>	The sky may be partly cloudy to mainly cloudy with maximum
September. 103.0 mm rainfall was recorded during past	temp. of $31.0 - 33.0$ °C and minimum temp. of $21.0 - 23.0$ °C.
four days. Maximum temperature range observed was 29.4	The maximum RH may attain max of 100 % and minimum RH
- 33.2 °C, range of minimum temperature observed was	of 91s %. The average wind speed during next five days may
20.5 – 21.9 °C, mean relative humidity observed in morning	be 0-2 km/hr.
and afternoon were 94.0 % and 73.3 % respectively. The	
average wind speed range was $0.7 - 2.3$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprayers used to combined while	to spray weedicide m	-	hours. aying of insecticides or pesticides. Insecticides and pesticides must not be
Rice	Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late sowing)		<ul> <li>Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage.</li> <li>Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.</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 folder, whorl maggot	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).
		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>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>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	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
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		ail treatment of pursons	had for varatables must be done with Cashandarim @ 2a/15 lit water must
			bed for vegetables must be done with Carbendazim@ 3g/15 lit water must -45/ Thiram/ Captan @ 2g/kg seed.
			for 30 min before transplanting.
Garden pea/	Land preparation		- After harvesting of colocasia/ cucurbits, raised beds may be prepared for
french bean			sowing of pea/ French bean.
Tomato (off	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
season)	6		
Fruit plants	Planting		Select foothills/ hill slope areas preferably facing South East site for
(Mango,	U		plantation of these plants.
Litchi, guava)			Earth balls with nursery plant should not be disturbed/ broken.
and Tree Bean			Prepare pits of size 2x2x2 feets. After planting, fill up the pit with soil
			making small mound to avoid water stagnation in the centre/ collar region
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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 - A.suum - Oesophagostomum sp.	- 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	of age	Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnightly
		Leto parasite	interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Poultry	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
2 0 0000 j	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
		Lincopulation	with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum	Water	1	Water depth of the trenches in paddy field should be maintained at
fish culture			1.0m. Rice bran and mustard oil cake (1:1) can be provided as
			supplementary feed. Avoid insecticide/pesticide 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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#### "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 13<sup>th</sup> September, 2013

#### Chandel

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel (14 <sup>th</sup> to 18 <sup>th</sup>
Imphal - West (10 <sup>th</sup> to 12 <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 upto 18 <sup>th</sup> September.
cloudy but partly cloudy during afternoon hours of 12 <sup>th</sup>	The sky may be partly cloudy to mainly cloudy with maximum
September. 103.0 mm rainfall was recorded during past	temp. of $32.0 - 33.0$ °C and minimum temp. of $22.0 - 24.0$ °C.
four days. Maximum temperature range observed was 29.4	The maximum RH may attain max of 99 % and minimum RH
- 33.2 °C, range of minimum temperature observed was	of 87 %. The average wind speed during next five days may be
20.5 – 21.9 °C, mean relative humidity observed in morning	2 km/hr.
and afternoon were 94.0 % and 73.3 % respectively. The	
average wind speed range was $0.7 - 2.3$ km/hr.	
	<ul> <li>Significant past weather for the preceding bi-weekly of Imphal - West (10<sup>th</sup> to 12<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 12<sup>th</sup> September. 103.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 - 33.2 °C, range of minimum temperature observed was 20.5 - 21.9 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 73.3 % respectively. The</li> </ul>

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprayers used to combined while	to spray weedicide m	-	hours. aying of insecticides or pesticides. Insecticides and pesticides must not be
Rice	Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late sowing)		<ul> <li>Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage.</li> <li>Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.</li> </ul>
		Sheath rot Sheath blight/ Bakani Borer	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. 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>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>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	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
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 dar		oil treatment of nursery	bed for vegetables must be done with Carbendazim@ 3g/15 lit water must
			-45/ Thiram/ Captan @ 2g/kg seed.
		zim @ 10g/ 5 lit water	for 30 min before transplanting.
Garden pea/	Land preparation		- After harvesting of colocasia/ cucurbits, raised beds may be prepared for
french bean			sowing of pea/ French bean.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants	Planting		Select foothills/ hill slope areas preferably facing South East site for
(Mango,			plantation of these plants.
Litchi, guava)			Earth balls with nursery plant should not be disturbed/ broken.
and Tree Bean			Prepare pits of size $2x^2x^2$ feets. After planting, fill up the pit with soil
			making small mound to avoid water stagnation in the centre/ collar region
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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 - A.suum - Oesophagostomum sp.	- 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	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.
Poultry	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
2 00000	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Fisheries		Cocciniosis	- Administer Coximur (@ 1g/tit of urinking water) for 7 days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Pond and water Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

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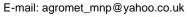
### MANIPUR BULLETIN 13<sup>th</sup> September, 2013

#### Churachandpur

	th
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur (14 <sup>th</sup> to
Imphal - West (10 <sup>th</sup> to 12 <sup>th</sup> September, 2013)	18 <sup>th</sup> September, 2013)
During the past three days the sky was mainly cloudy to	It is likely to have light to moderate rains upto 18 <sup>th</sup> September.
cloudy but partly cloudy during afternoon hours of 12 <sup>th</sup>	The sky may be partly cloudy to mainly cloudy with maximum
September. 103.0 mm rainfall was recorded during past	temp. of 31.0 - 33.0 °C and minimum temp. of $21.0 - 23.0$ °C.
four days. Maximum temperature range observed was 29.4	The maximum RH may attain max of 100 % and minimum RH
- 33.2 °C, range of minimum temperature observed was	of 92 %. The average wind speed during next five days may be
20.5 – 21.9 °C, mean relative humidity observed in morning	0-2 km/hr.
and afternoon were 94.0 % and 73.3 % respectively. The	
average wind speed range was $0.7 - 2.3$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprayers used to combined while	to spray weedicide m	-	hours. aying of insecticides or pesticides. Insecticides and pesticides must not be
Rice	Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late sowing)		<ul> <li>Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage.</li> <li>Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.</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 folder, whorl maggot	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).
		Gall midge Bacterial leaf blight	Thiomethoxam @ 5g/ 15 lit water.
		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>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>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	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.





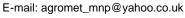


# "Integrated Agromet Advisory Services"

* To prevent dar		oil treatment of nursery	bed for vegetables must be done with Carbendazim@ 3g/15 lit water must
			-45/ Thiram/ Captan @ 2g/kg seed.
			for 30 min before transplanting.
Garden pea/	Land preparation		- After harvesting of colocasia/ cucurbits, raised beds may be prepared for
french bean			sowing of pea/ French bean.
Tomato (off	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
season)			
Fruit plants	Planting		Select foothills/ hill slope areas preferably facing South East site for
(Mango,			plantation of these plants.
Litchi, guava)			Earth balls with nursery plant should not be disturbed/ broken.
and Tree Bean			Prepare pits of size 2x2x2 feets. After planting, fill up the pit with soil
			making small mound to avoid water stagnation in the centre/ collar region
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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 - A.suum - Oesophagostomum sp.	- 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	of age	Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnightly
		Leto paraste	interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
I outry		Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
		Endopulusite	with Brotone liquid @ $5-10 \text{ ml}/100 \text{ birds}$ .
		Coccidiosis	- Administer <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide 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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#### "Integrated Agromet Advisory Services"

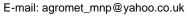
### MANIPUR BULLETIN 13<sup>th</sup> September, 2013

#### Imphal-East

ive days, i.e., itom i i to io september, 2015 as given below.	
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - East (14 <sup>th</sup> to
Imphal - West (10 <sup>th</sup> to 12 <sup>th</sup> September, 2013)	18 <sup>th</sup> September, 2013)
	4
During the past three days the sky was mainly cloudy to	It is likely to have light to moderate rains upto 18 <sup>th</sup> September.
cloudy but partly cloudy during afternoon hours of 12 <sup>th</sup>	The sky may be partly cloudy to mainly cloudy with maximum
September. 103.0 mm rainfall was recorded during past	temp. of 31.0 - 33.0 °C and minimum temp. of $22.0 - 23.0$ °C.
four days. Maximum temperature range observed was 29.4	The maximum RH may attain max of 100 % and minimum RH
- 33.2 °C, range of minimum temperature observed was	of 92 %. The average wind speed during next five days may be
20.5 - 21.9 °C, mean relative humidity observed in morning	0-2 km/hr.
and afternoon were 94.0 % and 73.3 % respectively. The	
average wind speed range was $0.7 - 2.3$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprayers used to combined while	to spray weedicide m	-	hours. aying of insecticides or pesticides. Insecticides and pesticides must not be
Rice	Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late sowing)		<ul> <li>Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage.</li> <li>Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.</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	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>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>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	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.





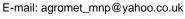


## "Integrated Agromet Advisory Services"

Horticulture Cro			
			bed for vegetables must be done with Carbendazim@ $3g/15$ lit water must $45/7$ Linear (Carten @ $25/15$ and
			-45/ Thiram/ Captan @ 2g/kg seed. for 30 min before transplanting.
Garden pea/	Land preparation	Izini @ 10g/ 5 ni water	- After harvesting of colocasia/ cucurbits, raised beds may be prepared for
french bean	Land preparation		sowing of pea/ French bean.
Tomato (off	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
season)	nunng	Fruit & shoot borer	Dentametirini 12% @ /mi/15 int water.
Fruit plants	Planting		Select foothills/ hill slope areas preferably facing South East site for
(Mango,	C C		plantation of these plants.
Litchi, guava)			Earth balls with nursery plant should not be disturbed/ broken.
and Tree Bean			Prepare pits of size $2x2x^2$ feets. After planting, fill up the pit with soil
			making small mound to avoid water stagnation in the centre/ collar region
Animal Scienc			1
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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 - A.suum - Oesophagostomum sp.	- 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 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.
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.
Fisheries	·		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as
Cat fish	Pond and water		supplementary feed. Avoid insecticide/pesticide on crops. 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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#### "Integrated Agromet Advisory Services"

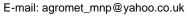
### MANIPUR BULLETIN 13<sup>th</sup> September, 2013

#### Imphal-West

Significant past weather for the preceding bi-weekly of Imphal - West (10 <sup>th</sup> to 12 <sup>th</sup> September, 2013)	Weather forecast for next five days of Imphal - West (14 <sup>th</sup> to 18 <sup>th</sup> September, 2013)
During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of $12^{\text{th}}$ September. <b>103.0 mm</b> rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.2 °C, range of minimum temperature observed was 20.5 – 21.9 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 73.3 % respectively. The average wind speed range was $0.7 - 2.3$ km/hr.	It is likely to have light to moderate rains upto $18^{\text{th}}$ September. The sky may be partly cloudy to mainly cloudy with maximum temp. of $31.0 - 33.0$ °C and minimum temp. of $21.0 - 23.0$ °C. The maximum RH may attain max of 100 % and minimum RH of 86 %. The average wind speed during next five days may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		1	·
* Sprayers used to combined while	to spray weedicide m	-	hours. aying of insecticides or pesticides. Insecticides and pesticides must not be
Rice	Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late sowing)		<ul> <li>Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage.</li> <li>Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.</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 folder, whorl maggot	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).
		Gall midge Bacterial leaf blight Plant hopper or any sucking insect	Thiomethoxam @ 5g/ 15 lit water. 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>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>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	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.





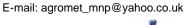


## "Integrated Agromet Advisory Services"

Horticulture Cro			
			bed for vegetables must be done with Carbendazim@ $3g/15$ lit water must $45/7$ Linear (Carten @ $25/15$ and
			-45/ Thiram/ Captan @ 2g/kg seed. for 30 min before transplanting.
Garden pea/	Land preparation	Izini @ 10g/ 5 ni water	- After harvesting of colocasia/ cucurbits, raised beds may be prepared for
french bean	Land preparation		sowing of pea/ French bean.
Tomato (off	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
season)	nunng	Fruit & shoot borer	Dentametirini 12% @ /mi/15 int water.
Fruit plants	Planting		Select foothills/ hill slope areas preferably facing South East site for
(Mango,	C C		plantation of these plants.
Litchi, guava)			Earth balls with nursery plant should not be disturbed/ broken.
and Tree Bean			Prepare pits of size $2x2x^2$ feets. After planting, fill up the pit with soil
			making small mound to avoid water stagnation in the centre/ collar region
Animal Scienc			1
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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 - A.suum - Oesophagostomum sp.	- 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 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.
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.
Fisheries	·		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as
Cat fish	Pond and water		supplementary feed. Avoid insecticide/pesticide on crops. 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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#### "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 13<sup>th</sup> September, 2013

#### Senapati

ive days, i.e., itolii i'i to io september, 2015 as given below.	
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati (14 <sup>th</sup> to 18 <sup>th</sup>
Imphal - West (10 <sup>th</sup> to 12 <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 upto 18 <sup>th</sup> September.
cloudy but partly cloudy during afternoon hours of 12 <sup>th</sup>	The sky may be partly cloudy to mainly cloudy with maximum
	temp. of 28.0 - 31.0 °C and minimum temp. of $21.0 - 23.0$ °C.
September. 103.0 mm rainfall was recorded during past	
four days. Maximum temperature range observed was 29.4	The maximum RH may attain max of 100 % and minimum RH
- 33.2 °C, range of minimum temperature observed was	of 85 %. The average wind speed during next five days may be
20.5 - 21.9 °C, mean relative humidity observed in morning	0-2 km/hr.
and afternoon were 94.0 % and 73.3 % respectively. The	
average wind speed range was $0.7 - 2.3$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
- All sprays shou	ld be done when sky	is clear for at least 2-3	hours.
		ust not be used for spra	aying of insecticides or pesticides. Insecticides and pesticides must not be
combined while			
- Farmers are adv	vised to add stickers	@ 5ml/ pump.	
Rice	Panicle initiation to		- Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45
	flowering (for normal sowing)		days of transplanting. Fertilizer must be applied after proper draining and
	Tillering to panicle		weeding. Water should be maintained at 5cm level upto dough stage.
	initiation (for late		- Weed out at 25-30 days after transplanting. Drain out the water and
	sowing)		apply 33kg of Urea as top dress.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Sheath blight/	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit
		Bakani	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
		folder, whorl maggot	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	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
	formation	Rust	- Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
		Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
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 Cre	*		
			bed for vegetables must be done with Carbendazim@ $3g/15$ lit water must
			-45/ Thiram/ Captan @ 2g/kg seed.
	Land preparation	izim @ 10g/ 5 ht water	for 30 min before transplanting. - After harvesting of colocasia/ cucurbits, raised beds may be prepared for
Garden pea/ french bean	Land preparation		sowing of pea/ French bean.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants	Planting		Select foothills/ hill slope areas preferably facing South East site for
(Mango,	1 minung		plantation of these plants.
Litchi, guava)			Earth balls with nursery plant should not be disturbed/ broken.
and Tree Bean			Prepare pits of size 2x2x2 feets. After planting, fill up the pit with soil
			making small mound to avoid water stagnation in the centre/ collar region
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
	Above 3 months of age	Helminth parasite - A.suum - Oesophagostomum sp.	- 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	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.
Poultry	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
U U	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Fisheries	I		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as
Cat fish	Dond and water		supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish (Ngakra)	Pond and water Feed		Water depth should be maintained at 0.5m -0.8m for nurseries Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

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#### "Integrated Agromet Advisory Services"

### MANIPUR BULLETIN 13<sup>th</sup> September, 2013

#### Thoubal

tive days, i.e., from 14 to 10 September, 2015 as given below.	
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal (14 <sup>th</sup> to 18 <sup>th</sup>
Imphal - West (10 <sup>th</sup> to 12 <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 upto 18 <sup>th</sup> September.
cloudy but partly cloudy during afternoon hours of 12 <sup>th</sup>	The sky may be partly cloudy to mainly cloudy with maximum
September. 103.0 mm rainfall was recorded during past	temp. of 32.0 - 33.0 °C and minimum temp. of $22.0 - 24.0$ °C.
four days. Maximum temperature range observed was 29.4	The maximum RH may attain max of 100 % and minimum RH
– 33.2 °C, range of minimum temperature observed was	of 91 %. The average wind speed during next five days may be
20.5 - 21.9 °C, mean relative humidity observed in morning	0-2 km/hr.
and afternoon were 94.0 % and 73.3 % respectively. The	
average wind speed range was $0.7 - 2.3$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
		is clear for at least 2-3	
		ust not be used for spra	aying of insecticides or pesticides. Insecticides and pesticides must not be
combined while		~ ~ ~	
	vised to add stickers	@ 5ml/ pump.	
Rice	Panicle initiation to flowering (for normal sowing)		- Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage.
	Tillering to panicle initiation (for late sowing)		- Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Sheath blight/	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit
		Bakani	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	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
·	formation	Rust	- Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
		Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



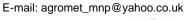


# "Integrated Agromet Advisory Services"

Horticulture Cro * To prevent dar		oil treatment of nursery	bed for vegetables must be done with Carbendazim@ 3g/15 lit water must
be done. Also se	ed treatment may be	done using Dithane M	-45/ Thiram/ Captan @ 2g/kg seed.
		zim @ 10g/ 5 lit water	for 30 min before transplanting.
Garden pea/	Land preparation		- After harvesting of colocasia/ cucurbits, raised beds may be prepared for
french bean			sowing of pea/ French bean.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants	Planting		Select footbills/ hill slope groes proferably fooing South East site for
(Mango,	Thanting		Select foothills/ hill slope areas preferably facing South East site for plantation of these plants.
Litchi, guava)			Earth balls with nursery plant should not be disturbed/ broken.
and Tree Bean			Prepare pits of size 2x2x2 feets. After planting, fill up the pit with soil
and free Dean			making small mound to avoid water stagnation in the centre/ collar region
Animal Scienc	05		making small mound to avoid water stagnation in the centre/ conar region
Name of the	Growth stage	Disease/ infestation	Agro-meteorological advisories
animal	Growth stage	Disease/ miestation	Agro-meteorological advisories
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	- A.suum	
		- Oesophagostomum	
		sp.	
	A1 2 1	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Withiun		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.
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.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerling the stocked
	Nurseries		fingerlings/ha can be stocked. Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds
	inuiseries		should be provided 2-3 times a day @ 5-10 body weight per day. 20-30
			million spawn can be stock in 1 ha pond for 15 days
Paddy cum	Water		Water depth of the trenches in paddy field should be maintained at
fish culture	** att		1.0m. Rice bran and mustard oil cake (1:1) can be provided as
nsh culture			
Cat fish	Dond and water		supplementary feed. Avoid insecticide/pesticide on crops.
	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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#### "Integrated Agromet Advisory Services"

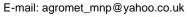
### MANIPUR BULLETIN 13<sup>th</sup> September, 2013

#### Ukhrul

tive days, i.e., from 14 to 10 September, 2015 as given below.	
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul (14 <sup>th</sup> to 18 <sup>th</sup>
Imphal - West (10 <sup>th</sup> to 12 <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 upto 18 <sup>th</sup> September.
cloudy but partly cloudy during afternoon hours of 12 <sup>th</sup>	The sky may be partly cloudy to mainly cloudy with maximum
September. 103.0 mm rainfall was recorded during past	temp. of 26.0 - 29.0 $^{\circ}$ C and minimum temp. of 18.0 – 20.0 $^{\circ}$ C.
four days. Maximum temperature range observed was 29.4	The maximum RH may attain max of 99 % and minimum RH
– 33.2 °C, range of minimum temperature observed was	of 82 %. The average wind speed during next five days may be
20.5 - 21.9 °C, mean relative humidity observed in morning	2 km/hr.
and afternoon were 94.0 % and 73.3 % respectively. The	
average wind speed range was $0.7 - 2.3$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
- All sprays shou	ld be done when sky	is clear for at least 2-3	hours.
		ust not be used for spra	aying of insecticides or pesticides. Insecticides and pesticides must not be
combined while			
- Farmers are adv	vised to add stickers	@ 5ml/ pump.	
Rice	Panicle initiation to flowering (for normal sowing)		- Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage.
	Tillering to panicle initiation (for late sowing)		- Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Sheath blight/	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit
		Bakani	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	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
-	formation	Rust	- Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
		Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.





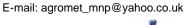


# "Integrated Agromet Advisory Services"

Horticulture Cro		·1	
			bed for vegetables must be done with Carbendazim@ 3g/15 lit water must 45/ Thiram/ Captan @ 2g/kg seed.
			for 30 min before transplanting.
Garden pea/	Land preparation		- After harvesting of colocasia/ cucurbits, raised beds may be prepared for
french bean	Lune proparation		sowing of pea/ French bean.
Tomato (off	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
season)			
Fruit plants	Planting		Select foothills/ hill slope areas preferably facing South East site for
(Mango,	C C		plantation of these plants.
Litchi, guava)			Earth balls with nursery plant should not be disturbed/ broken.
and Tree Bean			Prepare pits of size $2x^2x^2$ feets. After planting, fill up the pit with soil
			making small mound to avoid water stagnation in the centre/ collar region.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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 - A.suum - Oesophagostomum sp.	- 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	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.
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
	-0-0F	1	with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water	,	Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as
Q . C 1			supplementary feed. Avoid insecticide/pesticide 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.

Highlen ICAR

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





#### "Integrated Agromet Advisory Services"

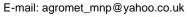
### MANIPUR BULLETIN 13<sup>th</sup> September, 2013

#### Tamenglong

Significant past weather for the preceding bi-weekly of Imphal - West (10 <sup>th</sup> to 12 <sup>th</sup> September, 2013)	Weather forecast for next five days of Tamenglong (14 <sup>th</sup> to 18 <sup>th</sup> September, 2013)
During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of $12^{\text{th}}$ September. <b>103.0 mm</b> rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.2 °C, range of minimum temperature observed was 20.5 – 21.9 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 73.3 % respectively. The average wind speed range was $0.7 - 2.3$ km/hr.	It is likely to have light to moderate rains upto $18^{th}$ September. The sky may be partly cloudy to mainly cloudy with maximum temp. of 32.0 - 35.0 °C and minimum temp. of 22.0 - 25.0 °C. The maximum RH may attain max of 100 % and minimum RH of 88 %. The average wind speed during next five days may be 0-2 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprayers used to combined while	to spray weedicide m	-	hours. aying of insecticides or pesticides. Insecticides and pesticides must not be
Rice	Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late sowing)		<ul> <li>Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage.</li> <li>Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.</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 folder, whorl maggot	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).
		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>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>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	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
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		·1 · · · · · ·	
			bed for vegetables must be done with Carbendazim@ 3g/15 lit water must -45/ Thiram/ Captan @ 2g/kg seed.
			for 30 min before transplanting.
Garden pea/	Land preparation		- After harvesting of colocasia/ cucurbits, raised beds may be prepared for
french bean			sowing of pea/ French bean.
Tomato (off	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
season)	C		
Fruit plants	Planting		Select foothills/ hill slope areas preferably facing South East site for
(Mango,			plantation of these plants.
Litchi, guava)			Earth balls with nursery plant should not be disturbed/ broken.
and Tree Bean			Prepare pits of size 2x2x2 feets. After planting, fill up the pit with soil
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