



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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**5<sup>th</sup> March, 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 6<sup>th</sup> to 10<sup>th</sup> March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> March, 2013)</u></p> <p>During the past four days the sky was clear to mainly clear but partly cloudy during morning hours of 1 and 4 March. No rainfall was recorded during past four days. Maximum temperature range observed was 29.7 – 32.0 °C, range of minimum temperature observed was 5.7 – 8.6 °C, mean relative humidity observed in morning and afternoon were 71.5 % and 23.25 % respectively. The average wind speed range was 1.0 – 2.9 km/hr.</p>	<p><u>Weather forecast for next five days of Bishnupur (6<sup>th</sup> to 10<sup>th</sup> March, 2013)</u></p> <p>There is likely of light rain during next five days. The sky is likely to be partly cloudy during next five days. The maximum temp. is likely to be 28.0 - 30.0 °C. The minimum temp. is likely to be 6.0 – 9.0 °C. The maximum RH is likely to attain a max value of 72 %. Minimum RH is likely to reach a max of 46 %. The average wind speed during next five days may reach upto max. value of 6 km/hr.</p>
--	---

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Pre- Kharif rice		<p>* In dry nursery:            - Uprooting of 15 days old seedlings for transplanting may be done carefully to avoid any damage of roots. Light irrigation may be done before uprooting.            - Transplant at a spacing of 20cm x 10cm.</p> <p>* In wet nursery:            - Seed rate for nursery for transplanting: 60 kg/ha. Treat the seed with Carbendazim @ 2g/kg of seed.            - Maintain 2-3cm water level initially and drain out completely before sowing. Then increase the water level to just submerge soil surface and expose the green aerial sprouts.            - Then land preparation of main field for transplanting may also be started.</p>
<b>Maize</b>	Vegetative		<p>- Application of 25 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation.            - Check for stem borer infestation in maize plant.</p>
<b>Rapeseed</b>	Pod filling to maturity		<p>- Monitor for pest or disease infestation to take up control measures at earliest.</p>
<b>Field Pea</b>	Pod filling to maturity		<p>- Monitor for pest or disease infestation to take up control measures at earliest.</p>
<b>Storage</b>			<p>- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.</p>
<b>Horticulture Crops</b>			
<b>Mango</b>	Flowering	Leaf Hopper and Leaf Weevil	<p>- Spray Cypermethrin or Fenvelerate (0.01%) alternatively with Carbaryl (0.1%) at an interval of one week. Repeat it twice or thrice.</p>
<b>Turmeric/ Ginger</b>	Sorting & treatment of rhizome seed & sowing		<p>- Sort out healthy rhizome seed and treat with Carbendazim @3 gm/kg seed and also with some insecticide.            - Sow treated rhizome seed.</p>
<b>Onion/ Garlic</b>	Bulb formation		<p>- Mulching of bed with dried twigs/ paddy straw is advised before rains. Also in small area, mulching may be done using old newspapers.            - If there is incidence of white mining lines of leaf minor and drying of tips, before rains, spray Nuvan @ 0.5ml/lit of water + 1 ml of Monocrotophos per liter of water at weekly interval (twice) or Cypermethrin @ 1ml/liter of water.</p>



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



**“Integrated Agromet Advisory Services”**

<b>Cucurbits</b>	Transplanting to early vegetative		- Seedlings may be transplanted. - In vegetative stage, staking/ support should be provided.
<b>Tomato/ Brinjal/ Chilli</b>	Vegetative		- Inter-culture operation may be done and top dress after 30days of transplanting.
<b>Potato</b>	Tuber development		- Late blight may be observed with the rains.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Pig</b>	Above 3 months of age	Swine Fever	- Vaccinate with Swine Fever vaccine as per prescribed dose.
<b>Cattle / Buffalo/ Mithun</b>	All age groups except three months or below	Black leg and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised.
<b>Goat</b>	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
<b>Poultry</b>		Ranikhet	- By the end of winter and before summer sets in, birds should be vaccinated against Ranikhet Disease.
	All susceptible age groups	Coccidiosis	- Poultry must be provided Coccidiostal drugs/ coximar (@ 2g/lit of drinking water) for 5 to 7 days
<b>Fisheries</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Field</b>	<b>Agro-metrological advisories</b>
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	Breeding	pond	Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH can be injected @ 0.5ml/kg fish for breeding.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

AMFU- Imphal Unit



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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**5<sup>th</sup> March, 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 6<sup>th</sup> to 10<sup>th</sup> March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> March, 2013)</u></p> <p>During the past four days the sky was clear to mainly clear but partly cloudy during morning hours of 1 and 4 March. No rainfall was recorded during past four days. Maximum temperature range observed was 29.7 – 32.0 °C, range of minimum temperature observed was 5.7 – 8.6 °C, mean relative humidity observed in morning and afternoon were 71.5 % and 23.25 % respectively. The average wind speed range was 1.0 – 2.9 km/hr.</p>	<p><u>Weather forecast for next five days of Chandel (6<sup>th</sup> to 10<sup>th</sup> March, 2013)</u></p> <p>There is likely of light rain during next five days. The sky is likely to be partly cloudy during next five days. The maximum temp. is likely to be 29.0 - 32.0 °C. The minimum temp. is likely to be 9.0 – 12.0 °C. The maximum RH is likely to attain a max value of 64 %. Minimum RH is likely to reach a max of 37 %. The average wind speed during next five days may reach upto max. value of 8 km/hr.</p>
--	--

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Pre- Kharif rice		<p>* In dry nursery: - Uprooting of 15 days old seedlings for transplanting may be done carefully to avoid any damage of roots. Light irrigation may be done before uprooting. - Transplant at a spacing of 20cm x 10cm.</p> <p>* In wet nursery: - Seed rate for nursery for transplanting: 60 kg/ha. Treat the seed with Carbendazim @ 2g/kg of seed. - Maintain 2-3cm water level initially and drain out completely before sowing. Then increase the water level to just submerge soil surface and expose the green aerial sprouts. - Then land preparation of main field for transplanting may also be started.</p>
<b>Maize</b>	Vegetative		<p>- Application of 25 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation. - Check for stem borer infestation in maize plant.</p>
<b>Rapeseed</b>	Pod filling to maturity		<p>- Monitor for pest or disease infestation to take up control measures at earliest.</p>
<b>Field Pea</b>	Pod filling to maturity		<p>- Monitor for pest or disease infestation to take up control measures at earliest.</p>
<b>Storage</b>			<p>- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.</p>
<b>Horticulture Crops</b>			
<b>Mango</b>	Flowering	Leaf Hopper and Leaf Weevil	<p>- Spray Cypermethrin or Fenvelerate (0.01%) alternatively with Carbaryl (0.1%) at an interval of one week. Repeat it twice or thrice.</p>
<b>Turmeric/ Ginger</b>	Sorting & treatment of rhizome seed & sowing		<p>- Sort out healthy rhizome seed and treat with Carbendazim @3 gm/kg seed and also with some insecticide. - Sow treated rhizome seed.</p>
<b>Onion/ Garlic</b>	Bulb formation		<p>- Mulching of bed with dried twigs/ paddy straw is advised before rains. Also in small area, mulching may be done using old newspapers. - If there is incidence of white mining lines of leaf minor and drying of tips, before rains, spray Nuvan @ 0.5ml/lit of water + 1 ml of Monocrotophos per liter of water at weekly interval (twice) or Cypermethrin @ 1ml/liter of water.</p>



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



**“Integrated Agromet Advisory Services”**

<b>Cucurbits</b>	Transplanting to early vegetative		- Seedlings may be transplanted. - In vegetative stage, staking/ support should be provided.
<b>Tomato/ Brinjal/ Chilli</b>	Vegetative		- Inter-culture operation may be done and top dress after 30days of transplanting.
<b>Potato</b>	Tuber development		- Late blight may be observed with the rains.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Pig</b>	Above 3 months of age	Swine Fever	- Vaccinate with Swine Fever vaccine as per prescribed dose.
<b>Cattle / Buffalo/ Mithun</b>	All age groups except three months or below	Black leg and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised.
<b>Goat</b>	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
<b>Poultry</b>		Ranikhet	- By the end of winter and before summer sets in, birds should be vaccinated against Ranikhet Disease.
	All susceptible age groups	Coccidiosis	- Poultry must be provided Coccidiostal drugs/ coximar (@ 2g/lit of drinking water) for 5 to 7 days
<b>Fisheries</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Field</b>	<b>Agro-metrological advisories</b>
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	Breeding	pond	Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH can be injected @ 0.5ml/kg fish for breeding.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

AMFU- Imphal Unit



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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**5<sup>th</sup> March, 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 6<sup>th</sup> to 10<sup>th</sup> March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> March, 2013)</u></p> <p>During the past four days the sky was clear to mainly clear but partly cloudy during morning hours of 1 and 4 March. No rainfall was recorded during past four days. Maximum temperature range observed was 29.7 – 32.0 °C, range of minimum temperature observed was 5.7 – 8.6 °C, mean relative humidity observed in morning and afternoon were 71.5 % and 23.25 % respectively. The average wind speed range was 1.0 – 2.9 km/hr.</p>	<p><u>Weather forecast for next five days of Churachandpur (6<sup>th</sup> to 10<sup>th</sup> March, 2013)</u></p> <p>There is likely of light rain during next five days. The sky is likely to be partly cloudy during next five days. The maximum temp. is likely to be 27.0 - 30.0 °C. The minimum temp. is likely to be 7.0 – 10.0 °C. The maximum RH is likely to attain a max value of 82 %. Minimum RH is likely to reach a max of 45 %. The average wind speed during next five days may reach upto max. value of 6 km/hr.</p>
--	--

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Pre- Kharif rice		<p>* In dry nursery: - Uprooting of 15 days old seedlings for transplanting may be done carefully to avoid any damage of roots. Light irrigation may be done before uprooting. - Transplant at a spacing of 20cm x 10cm.</p> <p>* In wet nursery: - Seed rate for nursery for transplanting: 60 kg/ha. Treat the seed with Carbendazim @ 2g/kg of seed. - Maintain 2-3cm water level initially and drain out completely before sowing. Then increase the water level to just submerge soil surface and expose the green aerial sprouts. - Then land preparation of main field for transplanting may also be started.</p>
<b>Maize</b>	Vegetative		<p>- Application of 25 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation. - Check for stem borer infestation in maize plant.</p>
<b>Rapeseed</b>	Pod filling to maturity		<p>- Monitor for pest or disease infestation to take up control measures at earliest.</p>
<b>Field Pea</b>	Pod filling to maturity		<p>- Monitor for pest or disease infestation to take up control measures at earliest.</p>
<b>Storage</b>			<p>- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.</p>
<b>Horticulture Crops</b>			
<b>Mango</b>	Flowering	Leaf Hopper and Leaf Weevil	<p>- Spray Cypermethrin or Fenvelerate (0.01%) alternatively with Carbaryl (0.1%) at an interval of one week. Repeat it twice or thrice.</p>
<b>Turmeric/ Ginger</b>	Sorting & treatment of rhizome seed & sowing		<p>- Sort out healthy rhizome seed and treat with Carbendazim @3 gm/kg seed and also with some insecticide. - Sow treated rhizome seed.</p>
<b>Onion/ Garlic</b>	Bulb formation		<p>- Mulching of bed with dried twigs/ paddy straw is advised before rains. Also in small area, mulching may be done using old newspapers. - If there is incidence of white mining lines of leaf minor and drying of tips, before rains, spray Nuvan @ 0.5ml/lit of water + 1 ml of Monocrotophos per liter of water at weekly interval (twice) or Cypermethrin @ 1ml/liter of water.</p>



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



**“Integrated Agromet Advisory Services”**

<b>Cucurbits</b>	Transplanting to early vegetative		- Seedlings may be transplanted. - In vegetative stage, staking/ support should be provided.
<b>Tomato/ Brinjal/ Chilli</b>	Vegetative		- Inter-culture operation may be done and top dress after 30days of transplanting.
<b>Potato</b>	Tuber development		- Late blight may be observed with the rains.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Pig</b>	Above 3 months of age	Swine Fever	- Vaccinate with Swine Fever vaccine as per prescribed dose.
<b>Cattle / Buffalo/ Mithun</b>	All age groups except three months or below	Black leg and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised.
<b>Goat</b>	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
<b>Poultry</b>		Ranikhet	- By the end of winter and before summer sets in, birds should be vaccinated against Ranikhet Disease.
	All susceptible age groups	Coccidiosis	- Poultry must be provided Coccidiostal drugs/ coximar (@ 2g/lit of drinking water) for 5 to 7 days
<b>Fisheries</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Field</b>	<b>Agro-metrological advisories</b>
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	Breeding	pond	Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH can be injected @ 0.5ml/kg fish for breeding.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

AMFU- Imphal Unit





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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**5<sup>th</sup> March, 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 6<sup>th</sup> to 10<sup>th</sup> March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> March, 2013)</u></p> <p>During the past four days the sky was clear to mainly clear but partly cloudy during morning hours of 1 and 4 March. No rainfall was recorded during past four days. Maximum temperature range observed was 29.7 – 32.0 °C, range of minimum temperature observed was 5.7 – 8.6 °C, mean relative humidity observed in morning and afternoon were 71.5 % and 23.25 % respectively. The average wind speed range was 1.0 – 2.9 km/hr.</p>	<p><u>Weather forecast for next five days of Imphal- East (6<sup>th</sup> to 10<sup>th</sup> March, 2013)</u></p> <p>There is likely of light rain during next five days. The sky is likely to be partly cloudy during next five days. The maximum temp. is likely to be 29.0 - 31.0 °C. The minimum temp. is likely to be 7.0 – 10.0 °C. The maximum RH is likely to attain a max value of 78 %. Minimum RH is likely to reach a max of 46 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>
--	---

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Pre- Kharif rice		<p>* In dry nursery:            - Uprooting of 15 days old seedlings for transplanting may be done carefully to avoid any damage of roots. Light irrigation may be done before uprooting.            - Transplant at a spacing of 20cm x 10cm.</p> <p>* In wet nursery:            - Seed rate for nursery for transplanting: 60 kg/ha. Treat the seed with Carbendazim @ 2g/kg of seed.            - Maintain 2-3cm water level initially and drain out completely before sowing. Then increase the water level to just submerge soil surface and expose the green aerial sprouts.            - Then land preparation of main field for transplanting may also be started.</p>
<b>Maize</b>	Vegetative		<p>- Application of 25 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation.            - Check for stem borer infestation in maize plant.</p>
<b>Rapeseed</b>	Pod filling to maturity		<p>- Monitor for pest or disease infestation to take up control measures at earliest.</p>
<b>Field Pea</b>	Pod filling to maturity		<p>- Monitor for pest or disease infestation to take up control measures at earliest.</p>
<b>Storage</b>			<p>- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.</p>
<b>Horticulture Crops</b>			
<b>Mango</b>	Flowering	Leaf Hopper and Leaf Weevil	<p>- Spray Cypermethrin or Fenvelerate (0.01%) alternatively with Carbaryl (0.1%) at an interval of one week. Repeat it twice or thrice.</p>
<b>Turmeric/ Ginger</b>	Sorting & treatment of rhizome seed & sowing		<p>- Sort out healthy rhizome seed and treat with Carbendazim @3 gm/kg seed and also with some insecticide.            - Sow treated rhizome seed.</p>
<b>Onion/ Garlic</b>	Bulb formation		<p>- Mulching of bed with dried twigs/ paddy straw is advised before rains. Also in small area, mulching may be done using old newspapers.            - If there is incidence of white mining lines of leaf minor and drying of tips, before rains, spray Nuvan @ 0.5ml/lit of water + 1 ml of Monocrotophos per liter of water at weekly interval (twice) or Cypermethrin @ 1ml/liter of water.</p>



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



**“Integrated Agromet Advisory Services”**

<b>Cucurbits</b>	Transplanting to early vegetative		- Seedlings may be transplanted. - In vegetative stage, staking/ support should be provided.
<b>Tomato/ Brinjal/ Chilli</b>	Vegetative		- Inter-culture operation may be done and top dress after 30days of transplanting.
<b>Potato</b>	Tuber development		- Late blight may be observed with the rains.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Pig</b>	Above 3 months of age	Swine Fever	- Vaccinate with Swine Fever vaccine as per prescribed dose.
<b>Cattle / Buffalo/ Mithun</b>	All age groups except three months or below	Black leg and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised.
<b>Goat</b>	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
<b>Poultry</b>		Ranikhet	- By the end of winter and before summer sets in, birds should be vaccinated against Ranikhet Disease.
	All susceptible age groups	Coccidiosis	- Poultry must be provided Coccidiostal drugs/ coximar (@ 2g/lit of drinking water) for 5 to 7 days
<b>Fisheries</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Field</b>	<b>Agro-metrological advisories</b>
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	Breeding	pond	Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH can be injected @ 0.5ml/kg fish for breeding.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

AMFU- Imphal Unit





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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**5<sup>th</sup> March, 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 6<sup>th</sup> to 10<sup>th</sup> March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> March, 2013)</u></p> <p>During the past four days the sky was clear to mainly clear but partly cloudy during morning hours of 1 and 4 March. No rainfall was recorded during past four days. Maximum temperature range observed was 29.7 – 32.0 °C, range of minimum temperature observed was 5.7 – 8.6 °C, mean relative humidity observed in morning and afternoon were 71.5 % and 23.25 % respectively. The average wind speed range was 1.0 – 2.9 km/hr.</p>	<p><u>Weather forecast for next five days of Imphal- West (6<sup>th</sup> to 10<sup>th</sup> March, 2013)</u></p> <p>There is likely of light rain during next five days. The sky is likely to be partly cloudy during next five days. The maximum temp. is likely to be 28.0 - 31.0 °C. The minimum temp. is likely to be 7.0 – 10.0 °C. The maximum RH is likely to attain a max value of 71 %. Minimum RH is likely to reach a max of 56 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>
--	---

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Pre- Kharif rice		<p>* In dry nursery: - Uprooting of 15 days old seedlings for transplanting may be done carefully to avoid any damage of roots. Light irrigation may be done before uprooting. - Transplant at a spacing of 20cm x 10cm.</p> <p>* In wet nursery: - Seed rate for nursery for transplanting: 60 kg/ha. Treat the seed with Carbendazim @ 2g/kg of seed. - Maintain 2-3cm water level initially and drain out completely before sowing. Then increase the water level to just submerge soil surface and expose the green aerial sprouts. - Then land preparation of main field for transplanting may also be started.</p>
<b>Maize</b>	Vegetative		<p>- Application of 25 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation. - Check for stem borer infestation in maize plant.</p>
<b>Rapeseed</b>	Pod filling to maturity		<p>- Monitor for pest or disease infestation to take up control measures at earliest.</p>
<b>Field Pea</b>	Pod filling to maturity		<p>- Monitor for pest or disease infestation to take up control measures at earliest.</p>
<b>Storage</b>			<p>- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.</p>
<b>Horticulture Crops</b>			
<b>Mango</b>	Flowering	Leaf Hopper and Leaf Weevil	<p>- Spray Cypermethrin or Fenvelerate (0.01%) alternatively with Carbaryl (0.1%) at an interval of one week. Repeat it twice or thrice.</p>
<b>Turmeric/ Ginger</b>	Sorting & treatment of rhizome seed & sowing		<p>- Sort out healthy rhizome seed and treat with Carbendazim @3 gm/kg seed and also with some insecticide. - Sow treated rhizome seed.</p>
<b>Onion/ Garlic</b>	Bulb formation		<p>- Mulching of bed with dried twigs/ paddy straw is advised before rains. Also in small area, mulching may be done using old newspapers. - If there is incidence of white mining lines of leaf minor and drying of tips, before rains, spray Nuvan @ 0.5ml/lit of water + 1 ml of Monocrotophos per liter of water at weekly interval (twice) or Cypermethrin @ 1ml/liter of water.</p>



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



**“Integrated Agromet Advisory Services”**

<b>Cucurbits</b>	Transplanting to early vegetative		- Seedlings may be transplanted. - In vegetative stage, staking/ support should be provided.
<b>Tomato/ Brinjal/ Chilli</b>	Vegetative		- Inter-culture operation may be done and top dress after 30days of transplanting.
<b>Potato</b>	Tuber development		- Late blight may be observed with the rains.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Pig</b>	Above 3 months of age	Swine Fever	- Vaccinate with Swine Fever vaccine as per prescribed dose.
<b>Cattle / Buffalo/ Mithun</b>	All age groups except three months or below	Black leg and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised.
<b>Goat</b>	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
<b>Poultry</b>		Ranikhet	- By the end of winter and before summer sets in, birds should be vaccinated against Ranikhet Disease.
	All susceptible age groups	Coccidiosis	- Poultry must be provided Coccidiostats drugs/ coximar (@ 2g/lit of drinking water) for 5 to 7 days
<b>Fisheries</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Field</b>	<b>Agro-metrological advisories</b>
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	Breeding	pond	Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH can be injected @ 0.5ml/kg fish for breeding.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

AMFU- Imphal Unit



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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**5<sup>th</sup> March, 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 6<sup>th</sup> to 10<sup>th</sup> March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> March, 2013)</u></p> <p>During the past four days the sky was clear to mainly clear but partly cloudy during morning hours of 1 and 4 March. No rainfall was recorded during past four days. Maximum temperature range observed was 29.7 – 32.0 °C, range of minimum temperature observed was 5.7 – 8.6 °C, mean relative humidity observed in morning and afternoon were 71.5 % and 23.25 % respectively. The average wind speed range was 1.0 – 2.9 km/hr.</p>	<p><u>Weather forecast for next five days of Senapati (6<sup>th</sup> to 10<sup>th</sup> March, 2013)</u></p> <p>There is likely of light rain during next five days. The sky is likely to be partly cloudy during next five days. The maximum temp. is likely to be 26.0 - 29.0 °C. The minimum temp. is likely to be 6.0 – 9.0 °C. The maximum RH is likely to attain a max value of 83 %. Minimum RH is likely to reach a max of 52 %. The average wind speed during next five days may reach upto max. value of 5 km/hr.</p>
--	--

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Pre- Kharif rice		<p>* In dry nursery: - Uprooting of 15 days old seedlings for transplanting may be done carefully to avoid any damage of roots. Light irrigation may be done before uprooting. - Transplant at a spacing of 20cm x 10cm.</p> <p>* In wet nursery: - Seed rate for nursery for transplanting: 60 kg/ha. Treat the seed with Carbendazim @ 2g/kg of seed. - Maintain 2-3cm water level initially and drain out completely before sowing. Then increase the water level to just submerge soil surface and expose the green aerial sprouts. - Then land preparation of main field for transplanting may also be started.</p>
<b>Maize</b>	Vegetative		<p>- Application of 25 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation. - Check for stem borer infestation in maize plant.</p>
<b>Rapeseed</b>	Pod filling to maturity		<p>- Monitor for pest or disease infestation to take up control measures at earliest.</p>
<b>Field Pea</b>	Pod filling to maturity		<p>- Monitor for pest or disease infestation to take up control measures at earliest.</p>
<b>Storage</b>			<p>- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.</p>
<b>Horticulture Crops</b>			
<b>Mango</b>	Flowering	Leaf Hopper and Leaf Weevil	<p>- Spray Cypermethrin or Fenvelerate (0.01%) alternatively with Carbaryl (0.1%) at an interval of one week. Repeat it twice or thrice.</p>
<b>Turmeric/ Ginger</b>	Sorting & treatment of rhizome seed & sowing		<p>- Sort out healthy rhizome seed and treat with Carbendazim @3 gm/kg seed and also with some insecticide. - Sow treated rhizome seed.</p>
<b>Onion/ Garlic</b>	Bulb formation		<p>- Mulching of bed with dried twigs/ paddy straw is advised before rains. Also in small area, mulching may be done using old newspapers. - If there is incidence of white mining lines of leaf minor and drying of tips, before rains, spray Nuvan @ 0.5ml/lit of water + 1 ml of Monocrotophos per liter of water at weekly interval (twice) or Cypermethrin @ 1ml/liter of water.</p>



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



**“Integrated Agromet Advisory Services”**

Cucurbits	Transplanting to early vegetative		- Seedlings may be transplanted. - In vegetative stage, staking/ support should be provided.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with Swine Fever vaccine as per prescribed dose.
Cattle / Buffalo/ Mithun	All age groups except three months or below	Black leg and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised.
Goat	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
Poultry	All susceptible age groups	Ranikhet	- By the end of winter and before summer sets in, birds should be vaccinated against Ranikhet Disease.
		Coccidiosis	- Poultry must be provided Coccidiostal drugs/ coximar (@ 2g/lit of drinking water) for 5 to 7 days
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	Breeding	pond	Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH can be injected @ 0.5ml/kg fish for breeding.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

AMFU- Imphal Unit



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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**5<sup>th</sup> March, 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 6<sup>th</sup> to 10<sup>th</sup> March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> March, 2013)</u></p> <p>During the past four days the sky was clear to mainly clear but partly cloudy during morning hours of 1 and 4 March. No rainfall was recorded during past four days. Maximum temperature range observed was 29.7 – 32.0 °C, range of minimum temperature observed was 5.7 – 8.6 °C, mean relative humidity observed in morning and afternoon were 71.5 % and 23.25 % respectively. The average wind speed range was 1.0 – 2.9 km/hr.</p>	<p><u>Weather forecast for next five days of Tamenglong (6<sup>th</sup> to 10<sup>th</sup> March, 2013)</u></p> <p>There is likely of light rain during next five days. The sky is likely to be partly cloudy during next five days. The maximum temp. is likely to be 28.0 - 31.0 °C. The minimum temp. is likely to be 8.0 – 11.0 °C. The maximum RH is likely to attain a max value of 72 %. Minimum RH is likely to reach a max of 48 %. The average wind speed during next five days may reach upto max. value of 5 km/hr.</p>
--	---

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Pre- Kharif rice		<ul style="list-style-type: none"> <li>* In dry nursery: <ul style="list-style-type: none"> <li>- Uprooting of 15 days old seedlings for transplanting may be done carefully to avoid any damage of roots. Light irrigation may be done before uprooting.</li> <li>- Transplant at a spacing of 20cm x 10cm.</li> </ul> </li> <li>* In wet nursery: <ul style="list-style-type: none"> <li>- Seed rate for nursery for transplanting: 60 kg/ha. Treat the seed with Carbendazim @ 2g/kg of seed.</li> <li>- Maintain 2-3cm water level initially and drain out completely before sowing. Then increase the water level to just submerge soil surface and expose the green aerial sprouts.</li> <li>- Then land preparation of main field for transplanting may also be started.</li> </ul> </li> </ul>
<b>Maize</b>	Vegetative		<ul style="list-style-type: none"> <li>- Application of 25 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation.</li> <li>- Check for stem borer infestation in maize plant.</li> </ul>
<b>Rapeseed</b>	Pod filling to maturity		<ul style="list-style-type: none"> <li>- Monitor for pest or disease infestation to take up control measures at earliest.</li> </ul>
<b>Field Pea</b>	Pod filling to maturity		<ul style="list-style-type: none"> <li>- Monitor for pest or disease infestation to take up control measures at earliest.</li> </ul>
<b>Storage</b>			<ul style="list-style-type: none"> <li>- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.</li> </ul>
<b>Horticulture Crops</b>			
<b>Mango</b>	Flowering	Leaf Hopper and Leaf Weevil	<ul style="list-style-type: none"> <li>- Spray Cypermethrin or Fenvelerate (0.01%) alternatively with Carbaryl (0.1%) at an interval of one week. Repeat it twice or thrice.</li> </ul>
<b>Turmeric/ Ginger</b>	Sorting & treatment of rhizome seed & sowing		<ul style="list-style-type: none"> <li>- Sort out healthy rhizome seed and treat with Carbendazim @3 gm/kg seed and also with some insecticide.</li> <li>- Sow treated rhizome seed.</li> </ul>
<b>Onion/ Garlic</b>	Bulb formation		<ul style="list-style-type: none"> <li>- Mulching of bed with dried twigs/ paddy straw is advised before rains. Also in small area, mulching may be done using old newspapers.</li> <li>- If there is incidence of white mining lines of leaf minor and drying of tips, before rains, spray Nuvan @ 0.5ml/lit of water + 1 ml of Monocrotophos per liter of water at weekly interval (twice) or Cypermethrin @ 1ml/liter of water.</li> </ul>



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



**“Integrated Agromet Advisory Services”**

<b>Cucurbits</b>	Transplanting to early vegetative		- Seedlings may be transplanted. - In vegetative stage, staking/ support should be provided.
<b>Tomato/ Brinjal/ Chilli</b>	Vegetative		- Inter-culture operation may be done and top dress after 30days of transplanting.
<b>Potato</b>	Tuber development		- Late blight may be observed with the rains.

***Animal Sciences***

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Pig</b>	Above 3 months of age	Swine Fever	- Vaccinate with Swine Fever vaccine as per prescribed dose.
<b>Cattle / Buffalo/ Mithun</b>	All age groups except three months or below	Black leg and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised.
<b>Goat</b>	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
<b>Poultry</b>	All susceptible age groups	Ranikhet	- By the end of winter and before summer sets in, birds should be vaccinated against Ranikhet Disease.
		Coccidiosis	- Poultry must be provided Coccidiostats drugs/ coximar (@ 2g/lit of drinking water) for 5 to 7 days

***Fisheries***

Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	Breeding	pond	Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH can be injected @ 0.5ml/kg fish for breeding.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

AMFU- Imphal Unit





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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**5<sup>th</sup> March, 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 6<sup>th</sup> to 10<sup>th</sup> March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> March, 2013)</u></p> <p>During the past four days the sky was clear to mainly clear but partly cloudy during morning hours of 1 and 4 March. No rainfall was recorded during past four days. Maximum temperature range observed was 29.7 – 32.0 °C, range of minimum temperature observed was 5.7 – 8.6 °C, mean relative humidity observed in morning and afternoon were 71.5 % and 23.25 % respectively. The average wind speed range was 1.0 – 2.9 km/hr.</p>	<p><u>Weather forecast for next five days of Thoubal (6<sup>th</sup> to 10<sup>th</sup> March, 2013)</u></p> <p>There is likely of light rain during next five days. The sky is likely to be partly cloudy during next five days. The maximum temp. is likely to be 28.0 - 31.0 °C. The minimum temp. is likely to be 7.0 – 10.0 °C. The maximum RH is likely to attain a max value of 69 %. Minimum RH is likely to reach a max of 44 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.</p>
--	--

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Pre- Kharif rice		<p>* In dry nursery: - Uprooting of 15 days old seedlings for transplanting may be done carefully to avoid any damage of roots. Light irrigation may be done before uprooting. - Transplant at a spacing of 20cm x 10cm.</p> <p>* In wet nursery: - Seed rate for nursery for transplanting: 60 kg/ha. Treat the seed with Carbendazim @ 2g/kg of seed. - Maintain 2-3cm water level initially and drain out completely before sowing. Then increase the water level to just submerge soil surface and expose the green aerial sprouts. - Then land preparation of main field for transplanting may also be started.</p>
<b>Maize</b>	Vegetative		<p>- Application of 25 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation. - Check for stem borer infestation in maize plant.</p>
<b>Rapeseed</b>	Pod filling to maturity		<p>- Monitor for pest or disease infestation to take up control measures at earliest.</p>
<b>Field Pea</b>	Pod filling to maturity		<p>- Monitor for pest or disease infestation to take up control measures at earliest.</p>
<b>Storage</b>			<p>- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.</p>
<b>Horticulture Crops</b>			
<b>Mango</b>	Flowering	Leaf Hopper and Leaf Weevil	<p>- Spray Cypermethrin or Fenvelerate (0.01%) alternatively with Carbaryl (0.1%) at an interval of one week. Repeat it twice or thrice.</p>
<b>Turmeric/ Ginger</b>	Sorting & treatment of rhizome seed & sowing		<p>- Sort out healthy rhizome seed and treat with Carbendazim @3 gm/kg seed and also with some insecticide. - Sow treated rhizome seed.</p>
<b>Onion/ Garlic</b>	Bulb formation		<p>- Mulching of bed with dried twigs/ paddy straw is advised before rains. Also in small area, mulching may be done using old newspapers. - If there is incidence of white mining lines of leaf minor and drying of tips, before rains, spray Nuvan @ 0.5ml/lit of water + 1 ml of Monocrotophos per liter of water at weekly interval (twice) or Cypermethrin @ 1ml/liter of water.</p>



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



**“Integrated Agromet Advisory Services”**

<b>Cucurbits</b>	Transplanting to early vegetative		- Seedlings may be transplanted. - In vegetative stage, staking/ support should be provided.
<b>Tomato/ Brinjal/ Chilli</b>	Vegetative		- Inter-culture operation may be done and top dress after 30days of transplanting.
<b>Potato</b>	Tuber development		- Late blight may be observed with the rains.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Pig</b>	Above 3 months of age	Swine Fever	- Vaccinate with Swine Fever vaccine as per prescribed dose.
<b>Cattle / Buffalo/ Mithun</b>	All age groups except three months or below	Black leg and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised.
<b>Goat</b>	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
<b>Poultry</b>		Ranikhet	- By the end of winter and before summer sets in, birds should be vaccinated against Ranikhet Disease.
	All susceptible age groups	Coccidiosis	- Poultry must be provided Coccidiostal drugs/ coximar (@ 2g/lit of drinking water) for 5 to 7 days
<b>Fisheries</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Field</b>	<b>Agro-metrological advisories</b>
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	Breeding	pond	Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH can be injected @ 0.5ml/kg fish for breeding.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

AMFU- Imphal Unit



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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**5<sup>th</sup> March, 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 6<sup>th</sup> to 10<sup>th</sup> March, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> March, 2013)</u></p> <p>During the past four days the sky was clear to mainly clear but partly cloudy during morning hours of 1 and 4 March. No rainfall was recorded during past four days. Maximum temperature range observed was 29.7 – 32.0 °C, range of minimum temperature observed was 5.7 – 8.6 °C, mean relative humidity observed in morning and afternoon were 71.5 % and 23.25 % respectively. The average wind speed range was 1.0 – 2.9 km/hr.</p>	<p><u>Weather forecast for next five days of Ukhrul (6<sup>th</sup> to 10<sup>th</sup> March, 2013)</u></p> <p>There is likely of light rain during next five days. The sky is likely to be partly cloudy during next five days. The maximum temp. is likely to be 26.0 - 28.0 °C. The minimum temp. is likely to be 6.0 – 9.0 °C. The maximum RH is likely to attain a max value of 69 %. Minimum RH is likely to reach a max of 42 %. The average wind speed during next five days may reach upto max. value of 7 km/hr.</p>
--	--

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Pre- Kharif rice		<p>* In dry nursery:            - Uprooting of 15 days old seedlings for transplanting may be done carefully to avoid any damage of roots. Light irrigation may be done before uprooting.            - Transplant at a spacing of 20cm x 10cm.</p> <p>* In wet nursery:            - Seed rate for nursery for transplanting: 60 kg/ha. Treat the seed with Carbendazim @ 2g/kg of seed.            - Maintain 2-3cm water level initially and drain out completely before sowing. Then increase the water level to just submerge soil surface and expose the green aerial sprouts.            - Then land preparation of main field for transplanting may also be started.</p>
<b>Maize</b>	Vegetative		<p>- Application of 25 kg of Nitrogen fertilizer per ha is recommended at the time of inter-culture operation.            - Check for stem borer infestation in maize plant.</p>
<b>Rapeseed</b>	Pod filling to maturity		<p>- Monitor for pest or disease infestation to take up control measures at earliest.</p>
<b>Field Pea</b>	Pod filling to maturity		<p>- Monitor for pest or disease infestation to take up control measures at earliest.</p>
<b>Storage</b>			<p>- Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Clean and dry the seeds.</p>
<b>Horticulture Crops</b>			
<b>Mango</b>	Flowering	Leaf Hopper and Leaf Weevil	<p>- Spray Cypermethrin or Fenvelerate (0.01%) alternatively with Carbaryl (0.1%) at an interval of one week. Repeat it twice or thrice.</p>
<b>Turmeric/ Ginger</b>	Sorting & treatment of rhizome seed & sowing		<p>- Sort out healthy rhizome seed and treat with Carbendazim @3 gm/kg seed and also with some insecticide.            - Sow treated rhizome seed.</p>
<b>Onion/ Garlic</b>	Bulb formation		<p>- Mulching of bed with dried twigs/ paddy straw is advised before rains. Also in small area, mulching may be done using old newspapers.            - If there is incidence of white mining lines of leaf minor and drying of tips, before rains, spray Nuvan @ 0.5ml/lit of water + 1 ml of Monocrotophos per liter of water at weekly interval (twice) or Cypermethrin @ 1ml/liter of water.</p>



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



**“Integrated Agromet Advisory Services”**

Cucurbits	Transplanting to early vegetative		- Seedlings may be transplanted. - In vegetative stage, staking/ support should be provided.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Pig	Above 3 months of age	Swine Fever	- Vaccinate with Swine Fever vaccine as per prescribed dose.
Cattle / Buffalo/ Mithun	All age groups except three months or below	Black leg and Haemorrhagic Septicaemia	- Vaccination of B.Q. and H.S. polyvalent (dose as per recommendation) is advised.
Goat	All susceptible age groups	B.Q. and H.S.	- Vaccination of B.Q. and H.S. (dose as per recommendation) is advised.
Poultry	All susceptible age groups	Ranikhet	- By the end of winter and before summer sets in, birds should be vaccinated against Ranikhet Disease.
		Coccidiosis	- Poultry must be provided Coccidiostal drugs/ coximar (@ 2g/lit of drinking water) for 5 to 7 days
Fisheries			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Common carp & grass carp brooders	Pond and water	Water depth should be maintained at 1.5 - 2.0 m
		Feed	Feeds should be provided 2 times a day @ 2-3% body weight per day.
		Fish	Male and female brooders should be stock in separate ponds. Brooders of 2-3 years old having more than 1kg should be selected for seed production.
		Feed	Feed should be provided @ 1-2% body weight per day. Feed can be fed 2 times a day.
	Breeding	pond	Pond should be free from insects, predators, aquatic weeds etc. Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. Hormone like ovaprim, ovatide or Wova-FH can be injected @ 0.5ml/kg fish for breeding.
	Nurseries	ponds	Water depth should be maintained at 1.0m After liming nursery ponds should be fertilized prior 15 days of spawn stocking. Feeding should be done 2-3 times a day @5-10% body weight/day.

AMFU- Imphal Unit