



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

26th December, 2014

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 27th to 31st December, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 25th December, 2014)

During past three days sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 23.2 °C, range of minimum temperature observed was 4.1 – 4.4 °C, mean relative humidity observed in morning and afternoon were 94.3 % and 59.0 % respectively. The average wind speed range was 1.0 – 2.1 km/hr.

Weather forecast for next five days of Chandel (27th to 31st December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear upto Monday but partly cloudy to mainly cloudy on Tuesday and Wednesday with maximum temp. of 20.0 – 22.0 °C & minimum temp. 1.0 – 3.0 °C. Relative humidity may reach upto 98 % (maximum RH) & 47 % (minimum RH). The average wind speed may be 4-5 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 29th December 2014

Fog would occur at many places over Manipur during next 3 days.

Weather Warning during next 3 days *

26, 27 & 28 December: Dense (Visibility 200 m or less) would occur at many places over Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative to flowering		- Give irrigation to keep soil moist and top dress with Urea @ 32.5 kg/ha at 30 days after sowing.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses (Field pea/ Lentil)	Vegetative		- If facility is available give irrigation to keep soil moist during vegetative stage for better yield.
		Aphid	- Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid on the infected patches only. - For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Rabi maize	Sowing to vegetative		- Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. - Give light irrigation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Harvesting		- Avoid bruise/ wound to the rhizome while harvesting. - Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mouldy and fungal growth in this weather. Hence, treat the seeds with trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.



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Cucurbits	Sowing		<ul style="list-style-type: none"> - Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. - Maintain seedlings upto 4-5 leaves stage under the polyhouse.
Tree Bean	Pre-bearing and bearing plants		<ul style="list-style-type: none"> - Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years old.
Pea/ Broad bean	Vegetative		<ul style="list-style-type: none"> - Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust specially to the crops grown in moist/ shady area.
Tomato	Transplanting to vegetative		<ul style="list-style-type: none"> - Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal were previously grown. It is better to plant it where the previous crop was rice, maize, etc. to avoid bacterial wilt. - As prophylactic and curative measure against early blight, apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Management	<ul style="list-style-type: none"> - Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material. - Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
			As the temperature is becoming low during night time protect birds from cold by using polythene sheet or hessian cloth.
Sheep/ Goat	Above 3 months of age (as and when required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomac suspension @ 5ml per adult.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		F.M.D.	- Vaccinate against F.M.D.
		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage & Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance	<ul style="list-style-type: none"> - Fish harvesting can be done. - Stock fish for next year and for this practices mentioned below may be done in small scale. - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5m. - Feeds should be provided 1-2 times a day @ 2-3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

26th December, 2014

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 27th to 31st December, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 25th December, 2014)

During past three days sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 23.2 °C, range of minimum temperature observed was 4.1 – 4.4 °C, mean relative humidity observed in morning and afternoon were 94.3 % and 59.0 % respectively. The average wind speed range was 1.0 – 2.1 km/hr.

Weather forecast for next five days of Churachandpur (27th to 31st December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear upto Monday but partly cloudy to mainly cloudy on Tuesday and Wednesday with maximum temp. of 20.0 – 22.0 °C & minimum temp. 1.0 – 3.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 41 % (minimum RH). The average wind speed may be 2-5 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 29th December 2014

Fog would occur at many places over Manipur during next 3 days.

Weather Warning during next 3 days *

26, 27 & 28 December: Dense (Visibility 200 m or less) would occur at many places over Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative to flowering		- Give irrigation to keep soil moist and top dress with Urea @ 32.5 kg/ha at 30 days after sowing.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses (Field pea/ Lentil)	Vegetative		- If facility is available give irrigation to keep soil moist during vegetative stage for better yield.
		Aphid	- Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid on the infected patches only. - For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Rabi maize	Sowing to vegetative		- Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. - Give light irrigation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Harvesting		- Avoid bruise/ wound to the rhizome while harvesting. - Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mouldy and fungal growth in this weather. Hence, treat the seeds with trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.



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Cucurbits	Sowing		<ul style="list-style-type: none"> - Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. - Maintain seedlings upto 4-5 leaves stage under the polyhouse.
Tree Bean	Pre-bearing and bearing plants		<ul style="list-style-type: none"> - Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years old.
Pea/ Broad bean	Vegetative		<ul style="list-style-type: none"> - Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust specially to the crops grown in moist/ shady area.
Tomato	Transplanting to vegetative		<ul style="list-style-type: none"> - Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal were previously grown. It is better to plant it where the previous crop was rice, maize, etc. to avoid bacterial wilt. - As prophylactic and curative measure against early blight, apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Management	<ul style="list-style-type: none"> - Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material. - Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
			As the temperature is becoming low during night time protect birds from cold by using polythene sheet or hessian cloth.
Sheep/ Goat	Above 3 months of age (as and when required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomac suspension @ 5ml per adult.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		F.M.D.	- Vaccinate against F.M.D.
		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage & Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance	<ul style="list-style-type: none"> - Fish harvesting can be done. - Stock fish for next year and for this practices mentioned below may be done in small scale. - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5m. - Feeds should be provided 1-2 times a day @ 2-3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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MANIPUR BULLETIN

26th December, 2014

Imphal-East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 27th to 31st December, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 25th December, 2014)

During past three days sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 23.2 °C, range of minimum temperature observed was 4.1 – 4.4 °C, mean relative humidity observed in morning and afternoon were 94.3 % and 59.0 % respectively. The average wind speed range was 1.0 – 2.1 km/hr.

Weather forecast for next five days of Imphal-East (27th to 31st December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear upto Monday but partly cloudy to mainly cloudy on Tuesday and Wednesday with maximum temp. of 22.0 – 23.0 °C & minimum temp. 1.0 – 3.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 37 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 29th December 2014

Fog would occur at many places over Manipur during next 3 days.

Weather Warning during next 3 days *

26, 27 & 28 December: Dense (Visibility 200 m or less) would occur at many places over Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative to flowering		- Give irrigation to keep soil moist and top dress with Urea @ 32.5 kg/ha at 30 days after sowing.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses (Field pea/ Lentil)	Vegetative		- If facility is available give irrigation to keep soil moist during vegetative stage for better yield.
		Aphid	- Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid on the infected patches only. - For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Rabi maize	Sowing to vegetative		- Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. - Give light irrigation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Harvesting		- Avoid bruise/ wound to the rhizome while harvesting. - Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mouldy and fungal growth in this weather. Hence, treat the seeds with trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.



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Cucurbits	Sowing		<ul style="list-style-type: none"> - Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. - Maintain seedlings upto 4-5 leaves stage under the polyhouse.
Tree Bean	Pre-bearing and bearing plants		<ul style="list-style-type: none"> - Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years old.
Pea/ Broad bean	Vegetative		<ul style="list-style-type: none"> - Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust specially to the crops grown in moist/ shady area.
Tomato	Transplanting to vegetative		<ul style="list-style-type: none"> - Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal were previously grown. It is better to plant it where the previous crop was rice, maize, etc. to avoid bacterial wilt. - As prophylactic and curative measure against early blight, apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Management	<ul style="list-style-type: none"> - Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material. - Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
			As the temperature is becoming low during night time protect birds from cold by using polythene sheet or hessian cloth.
Sheep/ Goat	Above 3 months of age (as and when required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomac suspension @ 5ml per adult.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		F.M.D.	- Vaccinate against F.M.D.
		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage & Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance	<ul style="list-style-type: none"> - Fish harvesting can be done. - Stock fish for next year and for this practices mentioned below may be done in small scale. - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5m. - Feeds should be provided 1-2 times a day @ 2-3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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MANIPUR BULLETIN

26th December, 2014

Imphal-West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 27th to 31st December, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 25th December, 2014)

During past three days sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 23.2 °C, range of minimum temperature observed was 4.1 – 4.4 °C, mean relative humidity observed in morning and afternoon were 94.3 % and 59.0 % respectively. The average wind speed range was 1.0 – 2.1 km/hr.

Weather forecast for next five days of Imphal-West (27th to 31st December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear upto Monday but partly cloudy to mainly cloudy on Tuesday and Wednesday with maximum temp. of 21.0 – 23.0 °C & minimum temp. 1.0 – 3.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 37 % (minimum RH). The average wind speed may be 3-5 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 29th December 2014

Fog would occur at many places over Manipur during next 3 days.

Weather Warning during next 3 days *

26, 27 & 28 December: Dense (Visibility 200 m or less) would occur at many places over Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative to flowering		- Give irrigation to keep soil moist and top dress with Urea @ 32.5 kg/ha at 30 days after sowing.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses (Field pea/ Lentil)	Vegetative		- If facility is available give irrigation to keep soil moist during vegetative stage for better yield.
		Aphid	- Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid on the infected patches only. - For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Rabi maize	Sowing to vegetative		- Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. - Give light irrigation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Harvesting		- Avoid bruise/ wound to the rhizome while harvesting. - Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mouldy and fungal growth in this weather. Hence, treat the seeds with trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.



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Cucurbits	Sowing		<ul style="list-style-type: none"> - Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. - Maintain seedlings upto 4-5 leaves stage under the polyhouse.
Tree Bean	Pre-bearing and bearing plants		<ul style="list-style-type: none"> - Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years old.
Pea/ Broad bean	Vegetative		<ul style="list-style-type: none"> - Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust specially to the crops grown in moist/ shady area.
Tomato	Transplanting to vegetative		<ul style="list-style-type: none"> - Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal were previously grown. It is better to plant it where the previous crop was rice, maize, etc. to avoid bacterial wilt. - As prophylactic and curative measure against early blight, apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Management	<ul style="list-style-type: none"> - Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material. - Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
			As the temperature is becoming low during night time protect birds from cold by using polythene sheet or hessian cloth.
Sheep/ Goat	Above 3 months of age (as and when required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomac suspension @ 5ml per adult.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		F.M.D.	- Vaccinate against F.M.D.
		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage & Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance	<ul style="list-style-type: none"> - Fish harvesting can be done. - Stock fish for next year and for this practices mentioned below may be done in small scale. - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5m. - Feeds should be provided 1-2 times a day @ 2-3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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26th December, 2014

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 27th to 31st December, 2014 as below:

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During past three days sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 23.2 °C, range of minimum temperature observed was 4.1 – 4.4 °C, mean relative humidity observed in morning and afternoon were 94.3 % and 59.0 % respectively. The average wind speed range was 1.0 – 2.1 km/hr.

Weather forecast for next five days of Senapati (27th to 31st December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear upto Monday but partly cloudy to mainly cloudy on Tuesday and Wednesday with maximum temp. of 19.0 – 21.0 °C & minimum temp. 0.0 – 2.0 °C. Relative humidity may reach upto 98 % (maximum RH) & 37 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 29th December 2014

Fog would occur at many places over Manipur during next 3 days.

Weather Warning during next 3 days *

26, 27 & 28 December: Dense (Visibility 200 m or less) would occur at many places over Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative to flowering		- Give irrigation to keep soil moist and top dress with Urea @ 32.5 kg/ha at 30 days after sowing.
Pulses (Field pea/ Lentil)	Vegetative		- keep soil moist during vegetative stage for better yield.
Rabi maize	Sowing to vegetative		- Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. - Give light irrigation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Harvesting		- Avoid bruise/ wound to the rhizome while harvesting. - Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mouldy and fungal growth in this weather. Hence, treat the seeds with trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.
Tree Bean	Pre-bearing and bearing plants		- Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years old.



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



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material. - Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
			As the temperature is becoming low during night time protect birds from cold by using polythene sheet or hessian cloth.
Sheep/ Goat	Above 3 months of age (as and when required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomac suspension @ 5ml per adult.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		F.M.D.	- Vaccinate against F.M.D.
		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.
Fishery:			
Type of Farming	Stage & Management	Agro-metrological advisories	
Carp/ Catfish culture	Harvesting and stock maintenance	<ul style="list-style-type: none">- Fish harvesting can be done.- Stock fish for next year and for this practices mentioned below may be done in small scale.- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5m.- Feeds should be provided 1-2 times a day @ 2-3 % body weight per day.- Well balanced feed fortified with vitamins and minerals should be provided.- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



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MANIPUR BULLETIN

26th December, 2014

Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 27th to 31st December, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 25th December, 2014)

During past three days sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 23.2 °C, range of minimum temperature observed was 4.1 – 4.4 °C, mean relative humidity observed in morning and afternoon were 94.3 % and 59.0 % respectively. The average wind speed range was 1.0 – 2.1 km/hr.

Weather forecast for next five days of Tamenglong (27th to 31st December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear upto Monday but partly cloudy to mainly cloudy on Tuesday and Wednesday with maximum temp. of 21.0 – 23.0 °C & minimum temp. 2.0 – 4.0 °C. Relative humidity may reach upto 99 % (maximum RH) & 38 % (minimum RH). The average wind speed may be 4-5 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 29th December 2014

Fog would occur at many places over Manipur during next 3 days.

Weather Warning during next 3 days *

26, 27 & 28 December: Dense (Visibility 200 m or less) would occur at many places over Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative to flowering		- Give irrigation to keep soil moist and top dress with Urea @ 32.5 kg/ha at 30 days after sowing.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses (Field pea/ Lentil)	Vegetative		- If facility is available give irrigation to keep soil moist during vegetative stage for better yield.
		Aphid	- Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid on the infected patches only. - For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Rabi maize	Sowing to vegetative		- Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. - Give light irrigation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Harvesting		- Avoid bruise/ wound to the rhizome while harvesting. - Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mouldy and fungal growth in this weather. Hence, treat the seeds with trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.



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Cucurbits	Sowing		<ul style="list-style-type: none"> - Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. - Maintain seedlings upto 4-5 leaves stage under the polyhouse.
Tree Bean	Pre-bearing and bearing plants		<ul style="list-style-type: none"> - Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years old.
Pea/ Broad bean	Vegetative		<ul style="list-style-type: none"> - Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust specially to the crops grown in moist/ shady area.
Tomato	Transplanting to vegetative		<ul style="list-style-type: none"> - Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal were previously grown. It is better to plant it where the previous crop was rice, maize, etc. to avoid bacterial wilt. - As prophylactic and curative measure against early blight, apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Management	<ul style="list-style-type: none"> - Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material. - Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
			As the temperature is becoming low during night time protect birds from cold by using polythene sheet or hessian cloth.
Sheep/ Goat	Above 3 months of age (as and when required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomac suspension @ 5ml per adult.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		F.M.D.	- Vaccinate against F.M.D.
		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage & Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance	<ul style="list-style-type: none"> - Fish harvesting can be done. - Stock fish for next year and for this practices mentioned below may be done in small scale. - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5m. - Feeds should be provided 1-2 times a day @ 2-3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

26th December, 2014

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 27th to 31st December, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 25th December, 2014)

During past three days sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 23.2 °C, range of minimum temperature observed was 4.1 – 4.4 °C, mean relative humidity observed in morning and afternoon were 94.3 % and 59.0 % respectively. The average wind speed range was 1.0 – 2.1 km/hr.

Weather forecast for next five days of Thoubal (27th to 31st December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear upto Monday but partly cloudy to mainly cloudy on Tuesday and Wednesday with maximum temp. of 21.0 – 23.0 °C & minimum temp. 2.0 – 4.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 43 % (minimum RH). The average wind speed may be 2 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 29th December 2014

Fog would occur at many places over Manipur during next 3 days.

Weather Warning during next 3 days *

26, 27 & 28 December: Dense (Visibility 200 m or less) would occur at many places over Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative to flowering		- Give irrigation to keep soil moist and top dress with Urea @ 32.5 kg/ha at 30 days after sowing.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses (Field pea/ Lentil)	Vegetative		- If facility is available give irrigation to keep soil moist during vegetative stage for better yield.
		Aphid	- Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid on the infected patches only. - For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Rabi maize	Sowing to vegetative		- Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. - Give light irrigation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Harvesting		- Avoid bruise/ wound to the rhizome while harvesting. - Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mouldy and fungal growth in this weather. Hence, treat the seeds with trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.



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Cucurbits	Sowing		<ul style="list-style-type: none"> - Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. - Maintain seedlings upto 4-5 leaves stage under the polyhouse.
Tree Bean	Pre-bearing and bearing plants		<ul style="list-style-type: none"> - Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years old.
Pea/ Broad bean	Vegetative		<ul style="list-style-type: none"> - Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust specially to the crops grown in moist/ shady area.
Tomato	Transplanting to vegetative		<ul style="list-style-type: none"> - Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal were previously grown. It is better to plant it where the previous crop was rice, maize, etc. to avoid bacterial wilt. - As prophylactic and curative measure against early blight, apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Management	<ul style="list-style-type: none"> - Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material. - Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
			As the temperature is becoming low during night time protect birds from cold by using polythene sheet or hessian cloth.
Sheep/ Goat	Above 3 months of age (as and when required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomac suspension @ 5ml per adult.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		F.M.D.	- Vaccinate against F.M.D.
		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage & Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance	<ul style="list-style-type: none"> - Fish harvesting can be done. - Stock fish for next year and for this practices mentioned below may be done in small scale. - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5m. - Feeds should be provided 1-2 times a day @ 2-3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

26th December, 2014

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 27th to 31st December, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 25th December, 2014)

During past three days sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 23.2 °C, range of minimum temperature observed was 4.1 – 4.4 °C, mean relative humidity observed in morning and afternoon were 94.3 % and 59.0 % respectively. The average wind speed range was 1.0 – 2.1 km/hr.

Weather forecast for next five days of Ukhrul (27th to 31st December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear upto Monday but partly cloudy to mainly cloudy on Tuesday and Wednesday with maximum temp. of 19.0 – 21.0 °C & minimum temp. 0.0 – 2.0 °C. Relative humidity may reach upto 97 % (maximum RH) & 43 % (minimum RH). The average wind speed may be 3-4 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 29th December 2014

Fog would occur at many places over Manipur during next 3 days.

Weather Warning during next 3 days *

26, 27 & 28 December: Dense (Visibility 200 m or less) would occur at many places over Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative to flowering		- Give irrigation to keep soil moist and top dress with Urea @ 32.5 kg/ha at 30 days after sowing.
Pulses (Field pea/ Lentil)	Vegetative		- keep soil moist during vegetative stage for better yield.
Rabi maize	Sowing to vegetative		- Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. - Give light irrigation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Harvesting		- Avoid bruise/ wound to the rhizome while harvesting. - Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mouldy and fungal growth in this weather. Hence, treat the seeds with trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.
Tree Bean	Pre-bearing and bearing plants		- Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years old.



**ICAR Research Complex for N.E.H. Region
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Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material. - Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
			As the temperature is becoming low during night time protect birds from cold by using polythene sheet or hessian cloth.
Sheep/ Goat	Above 3 months of age (as and when required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomac suspension @ 5ml per adult.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		F.M.D.	- Vaccinate against F.M.D.
		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.
Fishery:			
Type of Farming	Stage & Management	Agro-metrological advisories	
Carp/ Catfish culture	Harvesting and stock maintenance	<ul style="list-style-type: none">- Fish harvesting can be done.- Stock fish for next year and for this practices mentioned below may be done in small scale.- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5m.- Feeds should be provided 1-2 times a day @ 2-3 % body weight per day.- Well balanced feed fortified with vitamins and minerals should be provided.- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	

(I. Meghachandra Singh)
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**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

26th December, 2014

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 27th to 31st December, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 25th December, 2014)

During past three days sky was clear to mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 23.2 °C, range of minimum temperature observed was 4.1 – 4.4 °C, mean relative humidity observed in morning and afternoon were 94.3 % and 59.0 % respectively. The average wind speed range was 1.0 – 2.1 km/hr.

Weather forecast for next five days of Bishnupur (27th to 31st December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear upto Monday but partly cloudy to mainly cloudy on Tuesday and Wednesday with maximum temp. of 21.0 – 23.0 °C & minimum temp. 2.0 – 3.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 41 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 29th December 2014

Fog would occur at many places over Manipur during next 3 days.

Weather Warning during next 3 days *

26, 27 & 28 December: Dense (Visibility 200 m or less) would occur at many places over Manipur.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative to flowering		- Give irrigation to keep soil moist and top dress with Urea @ 32.5 kg/ha at 30 days after sowing.
		Aphid	- Use yellow plates for every 3 sq.m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water on the infected patches only.
Pulses (Field pea/ Lentil)	Vegetative		- If facility is available give irrigation to keep soil moist during vegetative stage for better yield.
		Aphid	- Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid on the infected patches only. - For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Rabi maize	Sowing to vegetative		- Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds. - Give light irrigation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Harvesting		- Avoid bruise/ wound to the rhizome while harvesting. - Sort out healthy rhizomes for seeds and apply neem based pesticides to protect from scale insects. Also incorporate lantana camera with the seed. - Also there are chances of mouldy and fungal growth in this weather. Hence, treat the seeds with trichoderma viride @ 20g/ kg seed, cover the heap with gunny bags/ tarpaulin for 2-3 days in an airy shade before storing the seeds.



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



“Integrated Agromet Advisory Services”

Cucurbits	Sowing		<ul style="list-style-type: none"> - Raising of cucurbits like water-melon, cucumber, sponge gourd, pumpkin, etc. in poly-pouch and trays may be done under polyhouse. - Maintain seedlings upto 4-5 leaves stage under the polyhouse.
Tree Bean	Pre-bearing and bearing plants		<ul style="list-style-type: none"> - Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years old.
Pea/ Broad bean	Vegetative		<ul style="list-style-type: none"> - Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust specially to the crops grown in moist/ shady area.
Tomato	Transplanting to vegetative		<ul style="list-style-type: none"> - Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal were previously grown. It is better to plant it where the previous crop was rice, maize, etc. to avoid bacterial wilt. - As prophylactic and curative measure against early blight, apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Management	<ul style="list-style-type: none"> - Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material. - Increase energy feed upto 5% (like maize, rice bran, etc.). - Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7 days along with vitamin B & vitamin A.
			As the temperature is becoming low during night time protect birds from cold by using polythene sheet or hessian cloth.
Sheep/ Goat	Above 3 months of age (as and when required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomac suspension @ 5ml per adult.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		F.M.D.	- Vaccinate against F.M.D.
		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage & Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance	<ul style="list-style-type: none"> - Fish harvesting can be done. - Stock fish for next year and for this practices mentioned below may be done in small scale. - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5m. - Feeds should be provided 1-2 times a day @ 2-3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.