



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

19th 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 20th to 24th December, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th December, 2014)

During past three days sky was mainly clear to partly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 26.4 °C, range of minimum temperature observed was 5.3 – 7.2 °C, mean relative humidity observed in morning and afternoon were 88.67 % and 60.0 % respectively. The average wind speed range was 1.2 – 2.7 km/hr.

Weather forecast for next five days of Imphal-East (20th to 24th December, 2014)

There may be no rain upto Wednesday. The morning hours are likely to be foggy. Sky will be mainly clear to partly cloudy with maximum temp. of 22.0 – 23.0 °C & minimum temp. 3.0 – 5.0 °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.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		- Weeding may be done. Also, thinning may be done where the plant populations are high. - 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. - Plant to plant distance may be maintained by thinning.
		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	Land preparation		- Land preparation for sowing rabi maize may be started. - 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.
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			
Cucurbits	Sowing		- 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		- 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.
Onion	Transplanting to vegetative		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing of 10-20cm or 10-15cm as per choice. Moist the bed before transplanting. Cover the seedlings only upto the root portion. Slight watering during morning and evening are necessary for 7-10 days till the seedlings get established. - Give light irrigation if the soil is dry.



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Pea/ Broad bean	Vegetative		- 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		- 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	- 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- cutaenously 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	- 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

19th 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 20th to 24th December, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th December, 2014)

During past three days sky was mainly clear to partly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 26.4 °C, range of minimum temperature observed was 5.3 – 7.2 °C, mean relative humidity observed in morning and afternoon were 88.67 % and 60.0 % respectively. The average wind speed range was 1.2 – 2.7 km/hr.

Weather forecast for next five days of Imphal-West (20th to 24th December, 2014)

There may be no rain upto Wednesday. The morning hours are likely to be foggy. Sky will be mainly clear to partly cloudy with maximum temp. of 21.0 – 23.0 °C & minimum temp. 3.0 – 4.0 °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.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		- Weeding may be done. Also, thinning may be done where the plant populations are high. - 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. - Plant to plant distance may be maintained by thinning.
		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	Land preparation		- Land preparation for sowing rabi maize may be started. - 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.
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			
Cucurbits	Sowing		- 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		- 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.
Onion	Transplanting to vegetative		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing of 10-20cm or 10-15cm as per choice. Moist the bed before transplanting. Cover the seedlings only upto the root portion. Slight watering during morning and evening are necessary for 7-10 days till the seedlings get established. - Give light irrigation if the soil is dry.



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Pea/ Broad bean	Vegetative		- 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		- 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	- 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- cutaenously 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	- 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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MANIPUR BULLETIN

19th 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 20th to 24th December, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th December, 2014)

During past three days sky was mainly clear to partly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 26.4 °C, range of minimum temperature observed was 5.3 – 7.2 °C, mean relative humidity observed in morning and afternoon were 88.67 % and 60.0 % respectively. The average wind speed range was 1.2 – 2.7 km/hr.

Weather forecast for next five days of Senapati (20th to 24th December, 2014)

There may be no rain upto Wednesday. The morning hours are likely to be foggy. Sky will be mainly clear to partly cloudy with maximum temp. of 18.0 – 20.0 °C & minimum temp. 1.0 – 3.0 °C. Relative humidity may reach upto 99 % (maximum RH) & 39 % (minimum RH). The average wind speed may be 3-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		- Weeding may be done. Also, thinning may be done where the plant populations are high.
Pulses (Field pea/ Lentil)	Vegetative		- Plant to plant distance may be maintained by thinning.
Rabi maize	Land preparation		- Land preparation for sowing rabi maize may be started. - 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.
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			
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.
Onion	Transplanting to vegetative		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing of 10-20cm or 10-15cm as per choice. Moist the bed before transplanting. Cover the seedlings only upto the root portion. Slight watering during morning and evening are necessary for 7-10 days till the seedlings get established. - Give light irrigation if the soil is dry.
Tomato	Transplanting to vegetative		- 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	- 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



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			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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MANIPUR BULLETIN

19th 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 20th to 24th December, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th December, 2014)

During past three days sky was mainly clear to partly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 26.4 °C, range of minimum temperature observed was 5.3 – 7.2 °C, mean relative humidity observed in morning and afternoon were 88.67 % and 60.0 % respectively. The average wind speed range was 1.2 – 2.7 km/hr.

Weather forecast for next five days of Tamenglong (20th to 24th December, 2014)

There may be no rain upto Wednesday. The morning hours are likely to be foggy. Sky will be mainly clear to partly cloudy with maximum temp. of 21.0 – 23.0 °C & minimum temp. 2.0 – 4.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 39 % (minimum RH). The average wind speed may be 3-5 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		- Weeding may be done. Also, thinning may be done where the plant populations are high. - 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. - Plant to plant distance may be maintained by thinning.
		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	Land preparation		- Land preparation for sowing rabi maize may be started. - 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.
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			
Cucurbits	Sowing		- 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		- 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.
Onion	Transplanting to vegetative		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing of 10-20cm or 10-15cm as per choice. Moist the bed before transplanting. Cover the seedlings only upto the root portion. Slight watering during morning and evening are necessary for 7-10 days till the seedlings get established. - Give light irrigation if the soil is dry.



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Pea/ Broad bean	Vegetative		- 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		- 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	- 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- cutaenously 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	- 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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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 20th to 24th December, 2014 as below:

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Weather forecast for next five days of Thoubal (20th to 24th December, 2014)

There may be no rain upto Wednesday. The morning hours are likely to be foggy. Sky will be mainly clear to partly cloudy with maximum temp. of 22.0 – 24.0 °C & minimum temp. 3.0 – 4.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 46 % (minimum RH). The average wind speed may be 2 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		- Weeding may be done. Also, thinning may be done where the plant populations are high. - 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. - Plant to plant distance may be maintained by thinning.
		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	Land preparation		- Land preparation for sowing rabi maize may be started. - 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.
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			
Cucurbits	Sowing		- 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		- 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.
Onion	Transplanting to vegetative		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing of 10-20cm or 10-15cm as per choice. Moist the bed before transplanting. Cover the seedlings only upto the root portion. Slight watering during morning and evening are necessary for 7-10 days till the seedlings get established. - Give light irrigation if the soil is dry.



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Pea/ Broad bean	Vegetative		- 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		- 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	- 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- cutaenously 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	- 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

19th 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 20th to 24th December, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th December, 2014)

During past three days sky was mainly clear to partly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 26.4 °C, range of minimum temperature observed was 5.3 – 7.2 °C, mean relative humidity observed in morning and afternoon were 88.67 % and 60.0 % respectively. The average wind speed range was 1.2 – 2.7 km/hr.

Weather forecast for next five days of Ukhrul (20th to 24th December, 2014)

There may be no rain upto Wednesday. The morning hours are likely to be foggy. Sky will be mainly clear to partly cloudy with maximum temp. of 19.0 – 21.0 °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 3-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		- Weeding may be done. Also, thinning may be done where the plant populations are high.
Pulses (Field pea/ Lentil)	Vegetative		- Plant to plant distance may be maintained by thinning.
Rabi maize	Land preparation		- Land preparation for sowing rabi maize may be started. - 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.
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			
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.
Onion	Transplanting to vegetative		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing of 10-20cm or 10-15cm as per choice. Moist the bed before transplanting. Cover the seedlings only upto the root portion. Slight watering during morning and evening are necessary for 7-10 days till the seedlings get established. - Give light irrigation if the soil is dry.
Tomato	Transplanting to vegetative		- 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	- 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.



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			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

19th 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 20th to 24th December, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th December, 2014)

During past three days sky was mainly clear to partly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 26.4 °C, range of minimum temperature observed was 5.3 – 7.2 °C, mean relative humidity observed in morning and afternoon were 88.67 % and 60.0 % respectively. The average wind speed range was 1.2 – 2.7 km/hr.

Weather forecast for next five days of Bishnupur (20th to 24th December, 2014)

There may be no rain upto Wednesday. The morning hours are likely to be foggy. Sky will be mainly clear to partly cloudy with maximum temp. of 21.0 – 23.0 °C & minimum temp. 3.0 – 5.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 44 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		- Weeding may be done. Also, thinning may be done where the plant populations are high. - 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. - Plant to plant distance may be maintained by thinning.
		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	Land preparation		- Land preparation for sowing rabi maize may be started. - 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.
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			
Cucurbits	Sowing		- 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		- 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.
Onion	Transplanting to vegetative		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing of 10-20cm or 10-15cm as per choice. Moist the bed before transplanting. Cover the seedlings only upto the root portion. Slight watering during morning and evening are necessary for 7-10 days till the seedlings get established. - Give light irrigation if the soil is dry.



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Pea/ Broad bean	Vegetative		- 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		- 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	- 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- cutaenously 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	- 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

19th 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 20th to 24th December, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th December, 2014)

During past three days sky was mainly clear to partly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 26.4 °C, range of minimum temperature observed was 5.3 – 7.2 °C, mean relative humidity observed in morning and afternoon were 88.67 % and 60.0 % respectively. The average wind speed range was 1.2 – 2.7 km/hr.

Weather forecast for next five days of Chandel (20th to 24th December, 2014)

There may be no rain upto Wednesday. The morning hours are likely to be foggy. Sky will be mainly clear to partly cloudy with maximum temp. of 20.0 – 22.0 °C & minimum temp. 2.0 – 4.0 °C. Relative humidity may reach upto 99 % (maximum RH) & 51 % (minimum RH). The average wind speed may be 3 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		- Weeding may be done. Also, thinning may be done where the plant populations are high. - 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. - Plant to plant distance may be maintained by thinning.
		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	Land preparation		- Land preparation for sowing rabi maize may be started. - 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.
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			
Cucurbits	Sowing		- 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		- 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.
Onion	Transplanting to vegetative		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing of 10-20cm or 10-15cm as per choice. Moist the bed before transplanting. Cover the seedlings only upto the root portion. Slight watering during morning and evening are necessary for 7-10 days till the seedlings get established. - Give light irrigation if the soil is dry.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



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Pea/ Broad bean	Vegetative		- 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		- 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	- 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	- 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.

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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

19th 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 20th to 24th December, 2014 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th December, 2014)

During past three days sky was mainly clear to partly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 22.9 – 26.4 °C, range of minimum temperature observed was 5.3 – 7.2 °C, mean relative humidity observed in morning and afternoon were 88.67 % and 60.0 % respectively. The average wind speed range was 1.2 – 2.7 km/hr.

Weather forecast for next five days of Churachandpur (20th to 24th December, 2014)

There may be no rain upto Wednesday. The morning hours are likely to be foggy. Sky will be mainly clear to partly cloudy with maximum temp. of 21.0 – 22.0 °C & minimum temp. 3.0 – 5.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 42 % (minimum RH). The average wind speed may be 3-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		- Weeding may be done. Also, thinning may be done where the plant populations are high. - 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. - Plant to plant distance may be maintained by thinning.
		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	Land preparation		- Land preparation for sowing rabi maize may be started. - 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.
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			
Cucurbits	Sowing		- 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		- 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.
Onion	Transplanting to vegetative		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing of 10-20cm or 10-15cm as per choice. Moist the bed before transplanting. Cover the seedlings only upto the root portion. Slight watering during morning and evening are necessary for 7-10 days till the seedlings get established. - Give light irrigation if the soil is dry.



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Pea/ Broad bean	Vegetative		- 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		- 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	- 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	- 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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