



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

18th November, 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 19th to 23rd November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 17th November, 2014)

During past four days sky was mainly clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 27.9 – 28.5 °C, range of minimum temperature observed was 11.1 – 12.4 °C, mean relative humidity observed in morning and afternoon were 76.5 % and 53.8 % respectively. The average wind speed range was 0.7 – 2.0 km/hr.

Weather forecast for next five days of Chandel (19th to 23rd November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 26.0 – 28.0 °C & minimum temp. 10.0 – 12.0 °C. Relative humidity may reach upto 99 % (maximum RH) & 62 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- Zero tillage rape seed may be sown. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Potato	Planting		- Sowing may be done at a spacing of 60cm X 15-20cm. - Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. - Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half hour. - Incubation of seeds in the sand bed for about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
* Apply <i>Chloropyrifos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage, if infested by cut-worm.			
Onion	Transplanting		- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land preparation		- To avoid wilt in pea or premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbenadazim. If the problem was there in last year, then follow crop rotation. Also, land must be ploughed properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		- Transplanting of 25-30 days old seedlings may be continued. - Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix



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			thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Onion	Nursery raising		- Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. - For 25 sq m area we need ½ kg seeds. - check that the new sprouts/ young plants in nursery beds are not damaged. - 45-60 days old seedlings may be transplanted.

Animal Sciences

***Take up measures to avoid mosquitoes in and around the sheds of birds and animals.**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
			Increase energy feed content like maize in feed.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
		Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomic 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.
		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 @ 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

18th November, 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 19th to 23rd November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 17th November, 2014)

During past four days sky was mainly clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 27.9 – 28.5 °C, range of minimum temperature observed was 11.1 – 12.4 °C, mean relative humidity observed in morning and afternoon were 76.5 % and 53.8 % respectively. The average wind speed range was 0.7 – 2.0 km/hr.

Weather forecast for next five days of Churachandpur (19th to 23rd November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 25.0 – 27.0 °C & minimum temp. 8.0 – 10.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 50 % (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			
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- Zero tillage rape seed may be sown. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Potato	Planting		- Sowing may be done at a spacing of 60cm X 15-20cm. - Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. - Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half hour. - Incubation of seeds in the sand bed for about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
* Apply <i>Chloropyrifos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage, if infested by cut-worm.			
Onion	Transplanting		- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land preparation		- To avoid wilt in pea or premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbenidazim. If the problem was there in last year, then follow crop rotation. Also, land must be ploughed properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		- Transplanting of 25-30 days old seedlings may be continued. - Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix



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			thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Onion	Nursery raising		- Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. - For 25 sq m area we need ½ kg seeds. - check that the new sprouts/ young plants in nursery beds are not damaged. - 45-60 days old seedlings may be transplanted.

Animal Sciences

***Take up measures to avoid mosquitoes in and around the sheds of birds and animals.**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
			Increase energy feed content like maize in feed.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
		Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomic 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.
		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 @ 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

18th November, 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 19th to 23rd November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 17th November, 2014)

During past four days sky was mainly clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 27.9 – 28.5 °C, range of minimum temperature observed was 11.1 – 12.4 °C, mean relative humidity observed in morning and afternoon were 76.5 % and 53.8 % respectively. The average wind speed range was 0.7 – 2.0 km/hr.

Weather forecast for next five days of Imphal-East (19th to 23rd November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 27.0 – 28.0 °C & minimum temp. 9.0 – 10.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 48 % (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			
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- Zero tillage rape seed may be sown. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Potato	Planting		- Sowing may be done at a spacing of 60cm X 15-20cm. - Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. - Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half hour. - Incubation of seeds in the sand bed for about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
* Apply <i>Chloropyrifos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage, if infested by cut-worm.			
Onion	Transplanting		- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land preparation		- To avoid wilt in pea or premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbenidazim. If the problem was there in last year, then follow crop rotation. Also, land must be ploughed properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		- Transplanting of 25-30 days old seedlings may be continued. - Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix



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			thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Onion	Nursery raising		- Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. - For 25 sq m area we need ½ kg seeds. - check that the new sprouts/ young plants in nursery beds are not damaged. - 45-60 days old seedlings may be transplanted.

Animal Sciences

***Take up measures to avoid mosquitoes in and around the sheds of birds and animals.**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
			Increase energy feed content like maize in feed.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
		Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomic 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.
		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 @ 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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Scientist i/c, GKMS



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MANIPUR BULLETIN

18th November, 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 19th to 23rd November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 17th November, 2014)

During past four days sky was mainly clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 27.9 – 28.5 °C, range of minimum temperature observed was 11.1 – 12.4 °C, mean relative humidity observed in morning and afternoon were 76.5 % and 53.8 % respectively. The average wind speed range was 0.7 – 2.0 km/hr.

Weather forecast for next five days of Imphal-West (19th to 23rd November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 26.0 – 28.0 °C & minimum temp. 9.0 – 11.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 47 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- Zero tillage rape seed may be sown. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Potato	Planting		- Sowing may be done at a spacing of 60cm X 15-20cm. - Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. - Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half hour. - Incubation of seeds in the sand bed for about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
* Apply <i>Chloropyrifos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage, if infested by cut-worm.			
Onion	Transplanting		- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land preparation		- To avoid wilt in pea or premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbenadazim. If the problem was there in last year, then follow crop rotation. Also, land must be ploughed properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		- Transplanting of 25-30 days old seedlings may be continued. - Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix



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			thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Onion	Nursery raising		- Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. - For 25 sq m area we need ½ kg seeds. - check that the new sprouts/ young plants in nursery beds are not damaged. - 45-60 days old seedlings may be transplanted.

Animal Sciences

***Take up measures to avoid mosquitoes in and around the sheds of birds and animals.**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
			Increase energy feed content like maize in feed.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
		Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomic 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.
		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 @ 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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18th November, 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 19th to 23rd November, 2014 as given below:

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Weather forecast for next five days of Senapati (19th to 23rd November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 23.0 – 25.0 °C & minimum temp. 7.0 – 9.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 46 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- Zero tillage rape seed may be sown. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
* Apply <i>Chloropyrifos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage, if infested by cut-worm.			
Onion	Transplanting		- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land preparation		- To avoid wilt in pea or premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbendazim. If the problem was there in last year, then follow crop rotation. Also, land must be ploughed properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		- Transplanting of 25-30 days old seedlings may be continued. - Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.



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Onion	Nursery raising		- Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. - For 25 sq m area we need ½ kg seeds. - check that the new sprouts/ young plants in nursery beds are not damaged. - 45-60 days old seedlings may be transplanted.
Animal Sciences			
*Take up measures to avoid mosquitoes in and around the sheds of birds and animals.			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
			Increase energy feed content like maize in feed.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
		Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomic 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.
		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 @ 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
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MANIPUR BULLETIN

18th November, 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 19th to 23rd November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 17th November, 2014)

During past four days sky was mainly clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 27.9 – 28.5 °C, range of minimum temperature observed was 11.1 – 12.4 °C, mean relative humidity observed in morning and afternoon were 76.5 % and 53.8 % respectively. The average wind speed range was 0.7 – 2.0 km/hr.

Weather forecast for next five days of Tamenglong (19th to 23rd November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 26.0 – 28.0 °C & minimum temp. 10.0 – 12.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 47 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- Zero tillage rape seed may be sown. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Potato	Planting		- Sowing may be done at a spacing of 60cm X 15-20cm. - Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. - Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half hour. - Incubation of seeds in the sand bed for about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
* Apply <i>Chloropyrifos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage, if infested by cut-worm.			
Onion	Transplanting		- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land preparation		- To avoid wilt in pea or premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbenidazim. If the problem was there in last year, then follow crop rotation. Also, land must be ploughed properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		- Transplanting of 25-30 days old seedlings may be continued. - Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix



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			thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Onion	Nursery raising		- Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. - For 25 sq m area we need ½ kg seeds. - check that the new sprouts/ young plants in nursery beds are not damaged. - 45-60 days old seedlings may be transplanted.

Animal Sciences

***Take up measures to avoid mosquitoes in and around the sheds of birds and animals.**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose. Increase energy feed content like maize in feed.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
		Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomic 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.
		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 @ 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

18th November, 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 19th to 23rd November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 17th November, 2014)

During past four days sky was mainly clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 27.9 – 28.5 °C, range of minimum temperature observed was 11.1 – 12.4 °C, mean relative humidity observed in morning and afternoon were 76.5 % and 53.8 % respectively. The average wind speed range was 0.7 – 2.0 km/hr.

Weather forecast for next five days of Thoubal (19th to 23rd November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 26.0 – 27.0 °C & minimum temp. 9.0 – 11.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 58 % (minimum RH). The average wind speed may be 0-2 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- Zero tillage rape seed may be sown. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Potato	Planting		- Sowing may be done at a spacing of 60cm X 15-20cm. - Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. - Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half hour. - Incubation of seeds in the sand bed for about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
* Apply <i>Chloropyrifos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage, if infested by cut-worm.			
Onion	Transplanting		- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land preparation		- To avoid wilt in pea or premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbenadazim. If the problem was there in last year, then follow crop rotation. Also, land must be ploughed properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		- Transplanting of 25-30 days old seedlings may be continued. - Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix



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			thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Onion	Nursery raising		- Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. - For 25 sq m area we need ½ kg seeds. - check that the new sprouts/ young plants in nursery beds are not damaged. - 45-60 days old seedlings may be transplanted.

Animal Sciences

***Take up measures to avoid mosquitoes in and around the sheds of birds and animals.**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose. Increase energy feed content like maize in feed.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
		Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomic 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.
		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 @ 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

18th November, 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 19th to 23rd November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 17th November, 2014)

During past four days sky was mainly clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 27.9 – 28.5 °C, range of minimum temperature observed was 11.1 – 12.4 °C, mean relative humidity observed in morning and afternoon were 76.5 % and 53.8 % respectively. The average wind speed range was 0.7 – 2.0 km/hr.

Weather forecast for next five days of Ukhrul (19th to 23rd November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 23.0 – 25.0 °C & minimum temp. 7.0 – 8.0 °C. Relative humidity may reach upto 99 % (maximum RH) & 55 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- Zero tillage rape seed may be sown. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
* Apply <i>Chloropyrifos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage, if infested by cut-worm.			
Onion	Transplanting		- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land preparation		- To avoid wilt in pea or premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbendazim. If the problem was there in last year, then follow crop rotation. Also, land must be ploughed properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		- Transplanting of 25-30 days old seedlings may be continued. - Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.



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Onion	Nursery raising		<ul style="list-style-type: none"> - Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. - For 25 sq m area we need ½ kg seeds. - check that the new sprouts/ young plants in nursery beds are not damaged. - 45-60 days old seedlings may be transplanted.
Animal Sciences			
*Take up measures to avoid mosquitoes in and around the sheds of birds and animals.			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose. Increase energy feed content like maize in feed.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
		Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomic 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.
		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 @ 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 Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

18th November, 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 19th to 23rd November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 17th November, 2014)

During past four days sky was mainly clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 27.9 – 28.5 °C, range of minimum temperature observed was 11.1 – 12.4 °C, mean relative humidity observed in morning and afternoon were 76.5 % and 53.8 % respectively. The average wind speed range was 0.7 – 2.0 km/hr.

Weather forecast for next five days of Bishnupur (19th to 23rd November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 26.0 – 27.0 °C & minimum temp. 8.0 – 10.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 54 % (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			
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- Zero tillage rape seed may be sown. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Potato	Planting		- Sowing may be done at a spacing of 60cm X 15-20cm. - Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. - Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half hour. - Incubation of seeds in the sand bed for about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
* Apply <i>Chloropyrifos (1.5%) dust</i> @25 kg /ha to the cauliflower/ cabbage, if infested by cut-worm.			
Onion	Transplanting		- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land preparation		- To avoid wilt in pea or premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbenidazim. If the problem was there in last year, then follow crop rotation. Also, land must be ploughed properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		- Transplanting of 25-30 days old seedlings may be continued. - Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix



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			thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Onion	Nursery raising		- Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. - For 25 sq m area we need ½ kg seeds. - check that the new sprouts/ young plants in nursery beds are not damaged. - 45-60 days old seedlings may be transplanted.

Animal Sciences

***Take up measures to avoid mosquitoes in and around the sheds of birds and animals.**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose. Increase energy feed content like maize in feed.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
		Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
		Deworming	- Give Albomic 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.
		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 @ 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