



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

31st January, 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 1st to 5th February, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th January, 2014)

During the past three days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 28th and 30th Jan. **No** rainfall was recorded during past three days. Maximum temperature range observed was 25.0 – 25.7 °C, range of minimum temperature observed was 3.1 – 3.5 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 34.3 % respectively. The average wind speed range was 1.3 – 2.2 km/hr.

Weather forecast for next five days of Imphal - West (1st to 5th February, 2014)

There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 25.0 - 27.0 °C & minimum temp. 4.0 - 6.0 °C. Relative Humidity may reach a maximum value of 98 % (maximum RH) & 25 % (minimum RH). The average wind speed may be 2-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering to Siliqua	Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering & fruiting		- Light irrigation may be given if the soil is dry. - Retain healthy and early pods of selected plants for seeds.
		Powdery Mildew	- Spray Bayleton (Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Vegetative		- Earthing-up of rabi maize sown intercropped with pea or potato may be done and apply irrigation at an interval of 10-15 days to maintain moisture status. - When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Onion/ Garlic	Vegetative		- Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase. - If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level.
Cucurbits	Sowing		- Go for nursery rising in polybags (size: 8cm X 10cm) under polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered with polythene sheet till the seeds sprout.
Tomato	Sowing		- Tomato nurseries should be raised under low cost polyhouse. - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m ² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m ² area keep the bed covered with gunny bag.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.



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Potato	Vegetative		<ul style="list-style-type: none"> - If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water. - Give light irrigation to attain optimum soil moisture.
Turmeric	Harvesting to post Harvesting		<ul style="list-style-type: none"> - Crops retained for seeds may be harvested. - Keep harvested rhizomes under shed for 3-4 days so that the soil adhering the rhizomes may shed automatically. Sort out healthy ones for seed purpose and left ones may be processed for making turmeric powder. - Select area where there is no water logging problem for storing rhizome seeds in pits till planting.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
			- Spray B904 @ 2ml/ lit of water in and around the poultry shed.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally @0.2 cc.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied by Livoferol @ 20ml daily.
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied by Livozyme @ 10 ml twice daily.
			For a pregnant sow, administer Sharkoferol Vet @ 20ml twice a day along with Ascagold susp. @ 15-20ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.

(I. Meghachandra Singh)
Scientist i/c,
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MANIPUR BULLETIN

31st January, 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 1st to 5th February, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th January, 2014)

During the past three days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 28th and 30th Jan. **No** rainfall was recorded during past three days. Maximum temperature range observed was 25.0 – 25.7 °C, range of minimum temperature observed was 3.1 – 3.5 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 34.3 % respectively. The average wind speed range was 1.3 – 2.2 km/hr.

Weather forecast for next five days of Senapati (1st to 5th February, 2014)

There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 24.0 - 25.0 °C & minimum temp. 2.0 - 4.0 °C. Relative Humidity may reach a maximum value of 98 % (maximum RH) & 24 % (minimum RH). The average wind speed may be 2-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering to Siliqua	Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering & fruiting		- Light irrigation may be given if the soil is dry. - Retain healthy and early pods of selected plants for seeds.
		Powdery Mildew	- Spray Bayleton (Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Vegetative		- Earthing-up of rabi maize sown intercropped with pea or potato may be done and apply irrigation at an interval of 10-15 days to maintain moisture status. - When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Onion/ Garlic	Vegetative		- Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase. - If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level.
Cucurbits	Sowing		- Go for nursery rising in polybags (size: 8cm X 10cm) under polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered with polythene sheet till the seeds sprout.
Tomato	Sowing		- Tomato nurseries should be raised under low cost polyhouse. - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m ² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m ² area keep the bed covered with gunny bag.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.



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Turmeric	Harvesting to post Harvesting		<ul style="list-style-type: none"> - Crops retained for seeds may be harvested. - Keep harvested rhizomes under shed for 3-4 days so that the soil adhering the rhizomes may shed automatically. Sort out healthy ones for seed purpose and left ones may be processed for making turmeric powder. - Select area where there is no water logging problem for storing rhizome seeds in pits till planting.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
			- Spray B904 @ 2ml/ lit of water in and around the poultry shed.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally @0.2 cc.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied by Livoferol @ 20ml daily.
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied by Livozyme @ 10 ml twice daily.
			For a pregnant sow, administer Sharkoferol Vet @ 20ml twice a day along with Ascagold susp. @ 15-20ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.

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MANIPUR BULLETIN

31st January, 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 1st to 5th February, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th January, 2014)

During the past three days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 28th and 30th Jan. **No** rainfall was recorded during past three days. Maximum temperature range observed was 25.0 – 25.7 °C, range of minimum temperature observed was 3.1 – 3.5 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 34.3 % respectively. The average wind speed range was 1.3 – 2.2 km/hr.

Weather forecast for next five days of Tamenglong (1st to 5th February, 2014)

There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 26.0 - 28.0 °C & minimum temp. 4.0 - 6.0 °C. Relative Humidity may reach a maximum value of 98 % (maximum RH) & 26 % (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	Flowering to Siliqua	Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering & fruiting		- Light irrigation may be given if the soil is dry. - Retain healthy and early pods of selected plants for seeds.
		Powdery Mildew	- Spray Bayleton (Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Vegetative		- Earthing-up of rabi maize sown intercropped with pea or potato may be done and apply irrigation at an interval of 10-15 days to maintain moisture status. - When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Onion/ Garlic	Vegetative		- Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase. - If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level.
Cucurbits	Sowing		- Go for nursery rising in polybags (size: 8cm X 10cm) under polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered with polythene sheet till the seeds sprout.
Tomato	Sowing		- Tomato nurseries should be raised under low cost polyhouse. - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m ² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m ² area keep the bed covered with gunny bag.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.



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Potato	Vegetative		- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water. - Give light irrigation to attain optimum soil moisture.
Turmeric	Harvesting to post Harvesting		- Crops retained for seeds may be harvested. - Keep harvested rhizomes under shed for 3-4 days so that the soil adhering the rhizomes may shed automatically. Sort out healthy ones for seed purpose and left ones may be processed for making turmeric powder. - Select area where there is no water logging problem for storing rhizome seeds in pits till planting.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
			- Spray B904 @ 2ml/ lit of water in and around the poultry shed.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally @0.2 cc.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied by Livoferol @ 20ml daily.
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied by Livozyme @ 10 ml twice daily.
			For a pregnant sow, administer Sharkoferol Vet @ 20ml twice a day along with Ascagold susp. @ 15-20ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.

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MANIPUR BULLETIN

31st January, 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 1st to 5th February, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th January, 2014)

During the past three days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 28th and 30th Jan. **No** rainfall was recorded during past three days. Maximum temperature range observed was 25.0 – 25.7 °C, range of minimum temperature observed was 3.1 – 3.5 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 34.3 % respectively. The average wind speed range was 1.3 – 2.2 km/hr.

Weather forecast for next five days of Thoubal (1st to 5th February, 2014)

There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 25.0 - 27.0 °C & minimum temp. 4.0 - 5.0 °C. Relative Humidity may reach a maximum value of 98 % (maximum RH) & 31 % (minimum RH). The average wind speed may be 4-7 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering to Siliqua	Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering & fruiting		- Light irrigation may be given if the soil is dry. - Retain healthy and early pods of selected plants for seeds.
		Powdery Mildew	- Spray Bayleton (Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Vegetative		- Earthing-up of rabi maize sown intercropped with pea or potato may be done and apply irrigation at an interval of 10-15 days to maintain moisture status. - When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Onion/ Garlic	Vegetative		- Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase. - If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level.
Cucurbits	Sowing		- Go for nursery rising in polybags (size: 8cm X 10cm) under polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered with polythene sheet till the seeds sprout.
Tomato	Sowing		- Tomato nurseries should be raised under low cost polyhouse. - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m ² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m ² area keep the bed covered with gunny bag.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.



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Potato	Vegetative		<ul style="list-style-type: none"> - If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water. - Give light irrigation to attain optimum soil moisture.
Turmeric	Harvesting to post Harvesting		<ul style="list-style-type: none"> - Crops retained for seeds may be harvested. - Keep harvested rhizomes under shed for 3-4 days so that the soil adhering the rhizomes may shed automatically. Sort out healthy ones for seed purpose and left ones may be processed for making turmeric powder. - Select area where there is no water logging problem for storing rhizome seeds in pits till planting.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
			- Spray B904 @ 2ml/ lit of water in and around the poultry shed.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally @0.2 cc.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied by Livoferol @ 20ml daily.
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied by Livozyme @ 10 ml twice daily.
			For a pregnant sow, administer Sharkoferol Vet @ 20ml twice a day along with Ascagold susp. @ 15-20ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.

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31st January, 2014

Ukhrul

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Weather forecast for next five days of Ukhrul (1st to 5th February, 2014)

There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 23.0 - 24.0 °C & minimum temp. 2.0 - 3.0 °C. Relative Humidity may reach a maximum value of 96 % (maximum RH) & 33 % (minimum RH). The average wind speed may be 4-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering to Siliqua	Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering & fruiting		- Light irrigation may be given if the soil is dry. - Retain healthy and early pods of selected plants for seeds.
		Powdery Mildew	- Spray Bayleton (Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Vegetative		- Earthing-up of rabi maize sown intercropped with pea or potato may be done and apply irrigation at an interval of 10-15 days to maintain moisture status. - When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Onion/ Garlic	Vegetative		- Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase. - If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level.
Cucurbits	Sowing		- Go for nursery rising in polybags (size: 8cm X 10cm) under polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered with polythene sheet till the seeds sprout.
Tomato	Sowing		- Tomato nurseries should be raised under low cost polyhouse. - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m ² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m ² area keep the bed covered with gunny bag.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.



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Manipur Centre, Lamphelpat, Imphal - 795 004



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Turmeric	Harvesting to post Harvesting		<ul style="list-style-type: none"> - Crops retained for seeds may be harvested. - Keep harvested rhizomes under shed for 3-4 days so that the soil adhering the rhizomes may shed automatically. Sort out healthy ones for seed purpose and left ones may be processed for making turmeric powder. - Select area where there is no water logging problem for storing rhizome seeds in pits till planting.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
			- Spray B904 @ 2ml/ lit of water in and around the poultry shed.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally @0.2 cc.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied by Livoferol @ 20ml daily.
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied by Livozyme @ 10 ml twice daily.
			For a pregnant sow, administer Sharkoferol Vet @ 20ml twice a day along with Ascagold susp. @ 15-20ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.

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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

31st January, 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 1st to 5th February, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th January, 2014)

During the past three days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 28th and 30th Jan. **No** rainfall was recorded during past three days. Maximum temperature range observed was 25.0 – 25.7 °C, range of minimum temperature observed was 3.1 – 3.5 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 34.3 % respectively. The average wind speed range was 1.3 – 2.2 km/hr.

Weather forecast for next five days of Bishnupur (1st to 5th February, 2014)

There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 25.0 - 27.0 °C & minimum temp. 4.0 - 6.0 °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 29 % (minimum RH). The average wind speed may be 4-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering to Siliqua	Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering & fruiting		- Light irrigation may be given if the soil is dry. - Retain healthy and early pods of selected plants for seeds.
		Powdery Mildew	- Spray Bayleton (Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Vegetative		- Earthing-up of rabi maize sown intercropped with pea or potato may be done and apply irrigation at an interval of 10-15 days to maintain moisture status. - When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Onion/ Garlic	Vegetative		- Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase. - If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level.
Cucurbits	Sowing		- Go for nursery rising in polybags (size: 8cm X 10cm) under polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered with polythene sheet till the seeds sprout.
Tomato	Sowing		- Tomato nurseries should be raised under low cost polyhouse. - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m ² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m ² area keep the bed covered with gunny bag.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.



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Potato	Vegetative		<ul style="list-style-type: none"> - If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water. - Give light irrigation to attain optimum soil moisture.
Turmeric	Harvesting to post Harvesting		<ul style="list-style-type: none"> - Crops retained for seeds may be harvested. - Keep harvested rhizomes under shed for 3-4 days so that the soil adhering the rhizomes may shed automatically. Sort out healthy ones for seed purpose and left ones may be processed for making turmeric powder. - Select area where there is no water logging problem for storing rhizome seeds in pits till planting.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
			- Spray B904 @ 2ml/ lit of water in and around the poultry shed.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally @0.2 cc.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied by Livoferol @ 20ml daily.
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied by Livozyme @ 10 ml twice daily.
			For a pregnant sow, administer Sharkoferol Vet @ 20ml twice a day along with Ascagold susp. @ 15-20ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.

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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

31st January, 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 1st to 5th February, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th January, 2014)

During the past three days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 28th and 30th Jan. **No** rainfall was recorded during past three days. Maximum temperature range observed was 25.0 – 25.7 °C, range of minimum temperature observed was 3.1 – 3.5 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 34.3 % respectively. The average wind speed range was 1.3 – 2.2 km/hr.

Weather forecast for next five days of Chandel (1st to 5th February, 2014)

There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 26.0 - 28.0 °C & minimum temp. 4.0 - 6.0 °C. Relative Humidity may reach a maximum value of 95 % (maximum RH) & 36 % (minimum RH). The average wind speed may be 4-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering to Siliqua	Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering & fruiting		- Light irrigation may be given if the soil is dry. - Retain healthy and early pods of selected plants for seeds.
		Powdery Mildew	- Spray Bayleton (Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Vegetative		- Earthing-up of rabi maize sown intercropped with pea or potato may be done and apply irrigation at an interval of 10-15 days to maintain moisture status. - When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Onion/ Garlic	Vegetative		- Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase. - If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level.
Cucurbits	Sowing		- Go for nursery rising in polybags (size: 8cm X 10cm) under polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered with polythene sheet till the seeds sprout.
Tomato	Sowing		- Tomato nurseries should be raised under low cost polyhouse. - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m ² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m ² area keep the bed covered with gunny bag.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.



**ICAR Research Complex for N.E.H. Region
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Potato	Vegetative		<ul style="list-style-type: none"> - If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water. - Give light irrigation to attain optimum soil moisture.
Turmeric	Harvesting to post Harvesting		<ul style="list-style-type: none"> - Crops retained for seeds may be harvested. - Keep harvested rhizomes under shed for 3-4 days so that the soil adhering the rhizomes may shed automatically. Sort out healthy ones for seed purpose and left ones may be processed for making turmeric powder. - Select area where there is no water logging problem for storing rhizome seeds in pits till planting.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
			- Spray B904 @ 2ml/ lit of water in and around the poultry shed.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally @0.2 cc.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied by Livoferol @ 20ml daily.
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied by Livozyme @ 10 ml twice daily.
			For a pregnant sow, administer Sharkoferol Vet @ 20ml twice a day along with Ascagold susp. @ 15-20ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.

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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

31st January, 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 1st to 5th February, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th January, 2014)

During the past three days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 28th and 30th Jan. **No** rainfall was recorded during past three days. Maximum temperature range observed was 25.0 – 25.7 °C, range of minimum temperature observed was 3.1 – 3.5 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 34.3 % respectively. The average wind speed range was 1.3 – 2.2 km/hr.

Weather forecast for next five days of Churachandpur (1st to 5th February, 2014)

There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 25.0 - 27.0 °C & minimum temp. 4.0 - 5.0 °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 28 % (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	Flowering to Siliqua	Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering & fruiting		- Light irrigation may be given if the soil is dry. - Retain healthy and early pods of selected plants for seeds.
		Powdery Mildew	- Spray Bayleton (Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Vegetative		- Earthing-up of rabi maize sown intercropped with pea or potato may be done and apply irrigation at an interval of 10-15 days to maintain moisture status. - When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Onion/ Garlic	Vegetative		- Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase. - If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level.
Cucurbits	Sowing		- Go for nursery rising in polybags (size: 8cm X 10cm) under polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered with polythene sheet till the seeds sprout.
Tomato	Sowing		- Tomato nurseries should be raised under low cost polyhouse. - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m ² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m ² area keep the bed covered with gunny bag.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.



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



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Potato	Vegetative		<ul style="list-style-type: none"> - If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water. - Give light irrigation to attain optimum soil moisture.
Turmeric	Harvesting to post Harvesting		<ul style="list-style-type: none"> - Crops retained for seeds may be harvested. - Keep harvested rhizomes under shed for 3-4 days so that the soil adhering the rhizomes may shed automatically. Sort out healthy ones for seed purpose and left ones may be processed for making turmeric powder. - Select area where there is no water logging problem for storing rhizome seeds in pits till planting.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
			- Spray B904 @ 2ml/ lit of water in and around the poultry shed.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally @0.2 cc.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied by Livoferol @ 20ml daily.
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied by Livozyme @ 10 ml twice daily.
			For a pregnant sow, administer Sharkoferol Vet @ 20ml twice a day along with Ascagold susp. @ 15-20ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.

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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

31st January, 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 1st to 5th February, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th January, 2014)

During the past three days the sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 28th and 30th Jan. **No** rainfall was recorded during past three days. Maximum temperature range observed was 25.0 – 25.7 °C, range of minimum temperature observed was 3.1 – 3.5 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 34.3 % respectively. The average wind speed range was 1.3 – 2.2 km/hr.

Weather forecast for next five days of Imphal - East (1st to 5th February, 2014)

There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 25.0 - 26.0 °C & minimum temp. 4.0 - 6.0 °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 25 % (minimum RH). The average wind speed may be 2-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering to Siliqua	Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering & fruiting		- Light irrigation may be given if the soil is dry. - Retain healthy and early pods of selected plants for seeds.
		Powdery Mildew	- Spray Bayleton (Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Rabi Maize	Vegetative		- Earthing-up of rabi maize sown intercropped with pea or potato may be done and apply irrigation at an interval of 10-15 days to maintain moisture status. - When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-culture operation.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. Well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Crops			
Onion/ Garlic	Vegetative		- Light and frequent irrigation is required to keep the soil moist throughout the growing period/ vegetative phase. - If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level.
Cucurbits	Sowing		- Go for nursery rising in polybags (size: 8cm X 10cm) under polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered with polythene sheet till the seeds sprout.
Tomato	Sowing		- Tomato nurseries should be raised under low cost polyhouse. - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m ² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m ² area keep the bed covered with gunny bag.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.



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



“Integrated Agromet Advisory Services”

Potato	Vegetative		<ul style="list-style-type: none"> - If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water. - Give light irrigation to attain optimum soil moisture.
Turmeric	Harvesting to post Harvesting		<ul style="list-style-type: none"> - Crops retained for seeds may be harvested. - Keep harvested rhizomes under shed for 3-4 days so that the soil adhering the rhizomes may shed automatically. Sort out healthy ones for seed purpose and left ones may be processed for making turmeric powder. - Select area where there is no water logging problem for storing rhizome seeds in pits till planting.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
			- Spray B904 @ 2ml/ lit of water in and around the poultry shed.
Sheep/ Goat	Above 3 months of age (as and when required)	Contagious Caprine Pluero-pneumonia (CCPP) in goat	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally @0.2 cc.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40kg b.wt. accompanied by Livoferol @ 20ml daily.
Pig	Above 3 months of age (as and when required)	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
		Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied by Livozyme @ 10 ml twice daily.
			For a pregnant sow, administer Sharkoferol Vet @ 20ml twice a day along with Ascagold susp. @ b15-20ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q. & H.S.	- Vaccinate against B.Q. & H.S.
		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.

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