



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

21st 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 22nd to 26th January, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th January, 2014)

During the past three days the sky was mainly clear to partly cloudy but mainly cloudy during 18th Jan (afternoon). No rainfall was recorded during past four days. Maximum temperature range observed was 24.3 – 25.8 °C, range of minimum temperature observed was 5.8 – 7.6 °C, mean relative humidity observed in morning and afternoon were 83.3 % and 47.5 % respectively. The average wind speed range was 1.1 – 5.1 km/hr.

Weather forecast for next five days of Senapati (22nd to 26th January, 2014)

There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 22.0 - 23.0 °C & minimum temp. 3.0 - 4.0 °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 36 % (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 pod formation		- Irrigation may be given. - If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water..
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering		- Light irrigation may be given if the soil is dry.
		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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry.
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			
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be well exposed to sun after ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim @ 2-3g/ kg seed.
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. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.



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Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	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.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
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 Albomar @5g in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
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 with 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 with Livozyme @ 10 ml twice daily.
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,
Gramin Krishi Mausam Seva (GKMS)



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MANIPUR BULLETIN

21st 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 22nd to 26th January, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th January, 2014)

During the past three days the sky was mainly clear to partly cloudy but mainly cloudy during 18th Jan (afternoon). No rainfall was recorded during past four days. Maximum temperature range observed was 24.3 – 25.8 °C, range of minimum temperature observed was 5.8 – 7.6 °C, mean relative humidity observed in morning and afternoon were 83.3 % and 47.5 % respectively. The average wind speed range was 1.1 – 5.1 km/hr.

Weather forecast for next five days of Tamenglong (22nd to 26th January, 2014)

There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 24.0 - 26.0 °C & minimum temp. 4.0 - 7.0 °C. Relative Humidity may reach a maximum value of 97 % (maximum RH) & 36 % (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 pod formation		- Irrigation may be given. - If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water..
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering		- Light irrigation may be given if the soil is dry.
		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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry.
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			
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be well exposed to sun after ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim @ 2-3g/ kg seed.
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. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.



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Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	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.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
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 Albomar @5g in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
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 with 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 with Livozyme @ 10 ml twice daily.
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,
Gramin Krishi Mausam Seva (GKMS)



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MANIPUR BULLETIN

21st 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 22nd to 26th January, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th January, 2014)

During the past three days the sky was mainly clear to partly cloudy but mainly cloudy during 18th Jan (afternoon). No rainfall was recorded during past four days. Maximum temperature range observed was 24.3 – 25.8 °C, range of minimum temperature observed was 5.8 – 7.6 °C, mean relative humidity observed in morning and afternoon were 83.3 % and 47.5 % respectively. The average wind speed range was 1.1 – 5.1 km/hr.

Weather forecast for next five days of Thoubal (22nd to 26th January, 2014)

There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 21.0 - 24.0 °C & minimum temp. 4.0 - 6.0 °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 40 % (minimum RH). The average wind speed may be 0-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering to pod formation		- Irrigation may be given. - If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water..
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering		- Light irrigation may be given if the soil is dry.
		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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry.
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			
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be well exposed to sun after ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim @ 2-3g/ kg seed.
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. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.



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Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	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.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
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 Albomar @5g in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
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 with 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 with Livozyme @ 10 ml twice daily.
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

21st January, 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 22nd to 26th January, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th January, 2014)

During the past three days the sky was mainly clear to partly cloudy but mainly cloudy during 18th Jan (afternoon). No rainfall was recorded during past four days. Maximum temperature range observed was 24.3 – 25.8 °C, range of minimum temperature observed was 5.8 – 7.6 °C, mean relative humidity observed in morning and afternoon were 83.3 % and 47.5 % respectively. The average wind speed range was 1.1 – 5.1 km/hr.

Weather forecast for next five days of Ukhrul (22nd to 26th January, 2014)

There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 22.0 - 24.0 °C & minimum temp. 4.0 - 6.0 °C. Relative Humidity may reach a maximum value of 97 % (maximum RH) & 40 % (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 pod formation		- Irrigation may be given. - If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water..
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering		- Light irrigation may be given if the soil is dry.
		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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry.
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			
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be well exposed to sun after ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim @ 2-3g/ kg seed.
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. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.



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Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	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.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
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 Albomar @5g in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
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 with 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 with Livozyme @ 10 ml twice daily.
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,
Gramin Krishi Mausam Seva (GKMS)



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MANIPUR BULLETIN

21st 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 22nd to 26th January, 14 as given below:

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Weather forecast for next five days of Bishnupur (22nd to 26th January, 2014)

There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 23.0 - 25.0 °C & minimum temp. 4.0 - 6.0 °C. Relative Humidity may reach a maximum value of 98 % (maximum RH) & 39 % (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 pod formation		- Irrigation may be given. - If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water..
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering		- Light irrigation may be given if the soil is dry.
		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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry.
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			
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be well exposed to sun after ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim @ 2-3g/ kg seed.
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. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.



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



“Integrated Agromet Advisory Services”

Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	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.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
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 Albomar @5g in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
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 with 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 with Livozyme @ 10 ml twice daily.
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)
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**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

21st 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 22nd to 26th January, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th January, 2014)

During the past three days the sky was mainly clear to partly cloudy but mainly cloudy during 18th Jan (afternoon). No rainfall was recorded during past four days. Maximum temperature range observed was 24.3 – 25.8 °C, range of minimum temperature observed was 5.8 – 7.6 °C, mean relative humidity observed in morning and afternoon were 83.3 % and 47.5 % respectively. The average wind speed range was 1.1 – 5.1 km/hr.

Weather forecast for next five days of Chandel (22nd to 26th January, 2014)

There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 21.0 - 24.0 °C & minimum temp. 4.0 - 7.0 °C. Relative Humidity may reach a maximum value of 97 % (maximum RH) & 42 % (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 pod formation		- Irrigation may be given. - If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water..
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering		- Light irrigation may be given if the soil is dry.
		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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry.
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			
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be well exposed to sun after ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim @ 2-3g/ kg seed.
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. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.



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



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Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	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.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
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 Albomar @5g in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
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 with 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 with Livozyme @ 10 ml twice daily.
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,
Gramin Krishi Mausam Seva (GKMS)



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

21st 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 22nd to 26th January, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th January, 2014)

During the past three days the sky was mainly clear to partly cloudy but mainly cloudy during 18th Jan (afternoon). No rainfall was recorded during past four days. Maximum temperature range observed was 24.3 – 25.8 °C, range of minimum temperature observed was 5.8 – 7.6 °C, mean relative humidity observed in morning and afternoon were 83.3 % and 47.5 % respectively. The average wind speed range was 1.1 – 5.1 km/hr.

Weather forecast for next five days of Churachandpur (22nd to 26th January, 2014)

There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 23.0 - 26.0 °C & minimum temp. 5.0 - 6.0 °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 39 % (minimum RH). The average wind speed may be 3-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering to pod formation		- Irrigation may be given. - If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water..
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering		- Light irrigation may be given if the soil is dry.
		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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry.
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			
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be well exposed to sun after ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim @ 2-3g/ kg seed.
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. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.



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



“Integrated Agromet Advisory Services”

Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	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.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
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 Albomar @5g in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
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 with 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 with Livozyme @ 10 ml twice daily.
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,
Gramin Krishi Mausam Seva (GKMS)



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

21st 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 22nd to 26th January, 14 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th January, 2014)</u></p> <p>During the past three days the sky was mainly clear to partly cloudy but mainly cloudy during 18th Jan (afternoon). No rainfall was recorded during past four days. Maximum temperature range observed was 24.3 – 25.8 °C, range of minimum temperature observed was 5.8 – 7.6 °C, mean relative humidity observed in morning and afternoon were 83.3 % and 47.5 % respectively. The average wind speed range was 1.1 – 5.1 km/hr.</p>	<p><u>Weather forecast for next five days of Imphal - East (22nd to 26th January, 2014)</u></p> <p>There may be no rain during next five days. Sky may be clear to partly cloudy with maximum temp. of 25.0 °C & minimum temp. 5.0 - 7.0 °C. Relative Humidity may reach a maximum value of 99 % (maximum RH) & 36 % (minimum RH). The average wind speed may be 2-6 km/hr during next five days.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering to pod formation		- Irrigation may be given. - If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water..
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering		- Light irrigation may be given if the soil is dry.
		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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry.
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			
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be well exposed to sun after ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim @ 2-3g/ kg seed.
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. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.



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



“Integrated Agromet Advisory Services”

Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	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.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
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 Albomar @5g in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
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 with 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 with Livozyme @ 10 ml twice daily.
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)
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**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

21st 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 22nd to 26th January, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th January, 2014)

During the past three days the sky was mainly clear to partly cloudy but mainly cloudy during 18th Jan (afternoon). No rainfall was recorded during past four days. Maximum temperature range observed was 24.3 – 25.8 °C, range of minimum temperature observed was 5.8 – 7.6 °C, mean relative humidity observed in morning and afternoon were 83.3 % and 47.5 % respectively. The average wind speed range was 1.1 – 5.1 km/hr.

Weather forecast for next five days of Imphal - West (22nd to 26th January, 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. 6.0 - 8.0 °C. Relative Humidity may reach a maximum value of 98 % (maximum RH) & 36 % (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 pod formation		- Irrigation may be given. - If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		White rust	- Spray Dithane M-45 @ 2g/ litre of water at 10 days interval.
		Aphid	- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water..
		Hairy caterpillar	- Spray Quinalphos or Chloropyriphos @ 2ml/litre of water to the infected patches only.
Pulses (Pea & Lentil)	Vegetative to flowering		- Light irrigation may be given if the soil is dry.
		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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry.
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			
Vegetable crops (French bean, Pea, etc.)	Land preparation	Pre-mature wilting	To avoid pre-mature wilting, soil must be well exposed to sun after ploughing. As prophylactic measure, a dormant spray of Bordeaux mixture (1:1:100) using 100 litres of water / sangam at least once in this week and another after 20-25 days. - Treat seed with Carbendazim @ 2-3g/ kg seed.
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. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing with 30-35 Kg DAP/ sangam.
Cucurbits	Nursery		- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be raised under polyhouse.



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



“Integrated Agromet Advisory Services”

Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase.
	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.
Onion/ Garlic	Vegetative		- Light irrigation may be given if the soil is dry.
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 Albomar @5g in drinking water for 100 birds.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
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 with 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 with Livozyme @ 10 ml twice daily.
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)
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