



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

28th 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 29th January to 2nd February, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 27th January, 2014)

During the past four days the sky was clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 24.6 – 25.9 °C, range of minimum temperature observed was 4.3 – 5.5 °C, mean relative humidity observed in morning and afternoon were 90.25 % and 37.0 % respectively. The average wind speed range was 2.0 – 3.5 km/hr.

Weather forecast for next five days of Thoubal (28th January to 2nd 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. 3.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 35 % (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		- During flowering four bee boxes may be kept in one hectare crop area. Avoid spray of insecticides in such area.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		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 & 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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry. - Apply nitrogen fertilizer as top dressing when the plant is knee high.
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			
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		- Transplanting may be done when seedlings are at 4-leaf stage.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.
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.



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Mango	Flowering		<ul style="list-style-type: none"> - Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. - To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. - To protect from Mango fruit fly, Methyl Eugenol trap 0.1% may be used @ 10 traps per hectare. - Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
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.
Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase under polyhouse.
	Sowing		<ul style="list-style-type: none"> - Tomato nurseries should be raised under low cost polyhouse - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Give light irrigation to attain optimum soil moisture.

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 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.
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

28th 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 29th January to 2nd February, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 27th January, 2014)

During the past four days the sky was clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 24.6 – 25.9 °C, range of minimum temperature observed was 4.3 – 5.5 °C, mean relative humidity observed in morning and afternoon were 90.25 % and 37.0 % respectively. The average wind speed range was 2.0 – 3.5 km/hr.

Weather forecast for next five days of Ukhrul (28th January to 2nd 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. 0.0 - 3.0 °C. Relative Humidity may reach a maximum value of 96 % (maximum RH) & 35 % (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		- During flowering four bee boxes may be kept in one hectare crop area. Avoid spray of insecticides in such area.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		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 & 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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry. - Apply nitrogen fertilizer as top dressing when the plant is knee high.
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			
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		- Transplanting may be done when seedlings are at 4-leaf stage.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.
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.



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Mango	Flowering		<ul style="list-style-type: none"> - Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. - To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. - To protect from Mango fruit fly, Methyl Eugenol trap 0.1% may be used @ 10 traps per hectare. - Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
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.
Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase under polyhouse.
	Sowing		<ul style="list-style-type: none"> - Tomato nurseries should be raised under low cost polyhouse - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Give light irrigation to attain optimum soil moisture.

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 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.
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

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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 29th January to 2nd February, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 27th January, 2014)

During the past four days the sky was clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 24.6 – 25.9 °C, range of minimum temperature observed was 4.3 – 5.5 °C, mean relative humidity observed in morning and afternoon were 90.25 % and 37.0 % respectively. The average wind speed range was 2.0 – 3.5 km/hr.

Weather forecast for next five days of Bishnupur (28th January to 2nd 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. 3.0 - 4.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 33 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering to Siliqua		- During flowering four bee boxes may be kept in one hectare crop area. Avoid spray of insecticides in such area.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		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 & 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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry. - Apply nitrogen fertilizer as top dressing when the plant is knee high.
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			
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		- Transplanting may be done when seedlings are at 4-leaf stage.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.
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.



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Mango	Flowering		<ul style="list-style-type: none"> - Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. - To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. - To protect from Mango fruit fly, Methyl Eugenol trap 0.1% may be used @ 10 traps per hectare. - Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
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.
Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase under polyhouse.
	Sowing		<ul style="list-style-type: none"> - Tomato nurseries should be raised under low cost polyhouse - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Give light irrigation to attain optimum soil moisture.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	<ol style="list-style-type: none"> 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. R₂B 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 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.
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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MANIPUR BULLETIN

28th January, 2014

Chandel

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Weather forecast for next five days of Chandel (28th January to 2nd February, 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. 3.0 °C. Relative Humidity may reach a maximum value of 96 % (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 Siliqua		- During flowering four bee boxes may be kept in one hectare crop area. Avoid spray of insecticides in such area.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		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 & 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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry. - Apply nitrogen fertilizer as top dressing when the plant is knee high.
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			
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		- Transplanting may be done when seedlings are at 4-leaf stage.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.
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.



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	Sowing		<ul style="list-style-type: none"> - Tomato nurseries should be raised under low cost polyhouse - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Give light irrigation to attain optimum soil moisture.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	<ol style="list-style-type: none"> 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. R₂B 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).
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		Skin disease	- Spray Butox @ 2ml in 1 lit of water, twice a week.

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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

28th 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 29th January to 2nd February, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 27th January, 2014)

During the past four days the sky was clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 24.6 – 25.9 °C, range of minimum temperature observed was 4.3 – 5.5 °C, mean relative humidity observed in morning and afternoon were 90.25 % and 37.0 % respectively. The average wind speed range was 2.0 – 3.5 km/hr.

Weather forecast for next five days of Churachandpur (28th January to 2nd February, 2014)

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. 3.0 - 4.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 31 % (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 Siliqua		- During flowering four bee boxes may be kept in one hectare crop area. Avoid spray of insecticides in such area.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		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 & 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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry. - Apply nitrogen fertilizer as top dressing when the plant is knee high.
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			
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		- Transplanting may be done when seedlings are at 4-leaf stage.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.
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.



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



“Integrated Agromet Advisory Services”

Mango	Flowering		<ul style="list-style-type: none"> - Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. - To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. - To protect from Mango fruit fly, Methyl Eugenol trap 0.1% may be used @ 10 traps per hectare. - Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
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.
Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase under polyhouse.
	Sowing		<ul style="list-style-type: none"> - Tomato nurseries should be raised under low cost polyhouse - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Give light irrigation to attain optimum soil moisture.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	<ol style="list-style-type: none"> 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. R₂B 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 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.
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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**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

28th 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 29th January to 2nd February, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 27th January, 2014)

During the past four days the sky was clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 24.6 – 25.9 °C, range of minimum temperature observed was 4.3 – 5.5 °C, mean relative humidity observed in morning and afternoon were 90.25 % and 37.0 % respectively. The average wind speed range was 2.0 – 3.5 km/hr.

Weather forecast for next five days of Imphal - East (28th January to 2nd 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. 3.0 - 5.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 27 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering to Siliqua		- During flowering four bee boxes may be kept in one hectare crop area. Avoid spray of insecticides in such area.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		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 & 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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry. - Apply nitrogen fertilizer as top dressing when the plant is knee high.
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			
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		- Transplanting may be done when seedlings are at 4-leaf stage.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.
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.



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“Integrated Agromet Advisory Services”

Mango	Flowering		<ul style="list-style-type: none"> - Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. - To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. - To protect from Mango fruit fly, Methyl Eugenol trap 0.1% may be used @ 10 traps per hectare. - Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
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.
Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase under polyhouse.
	Sowing		<ul style="list-style-type: none"> - Tomato nurseries should be raised under low cost polyhouse - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Give light irrigation to attain optimum soil moisture.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	<ol style="list-style-type: none"> 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. R₂B 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 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.
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

28th 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 29th January to 2nd February, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 27th January, 2014)

During the past four days the sky was clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 24.6 – 25.9 °C, range of minimum temperature observed was 4.3 – 5.5 °C, mean relative humidity observed in morning and afternoon were 90.25 % and 37.0 % respectively. The average wind speed range was 2.0 – 3.5 km/hr.

Weather forecast for next five days of Imphal - West (28th January to 2nd February, 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. 3.0 - 5.0 °C. Relative Humidity may reach a maximum value of 100 % (maximum RH) & 27 % (minimum RH). The average wind speed may be 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 Siliqua		- During flowering four bee boxes may be kept in one hectare crop area. Avoid spray of insecticides in such area.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		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 & 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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry. - Apply nitrogen fertilizer as top dressing when the plant is knee high.
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			
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		- Transplanting may be done when seedlings are at 4-leaf stage.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.
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.



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



“Integrated Agromet Advisory Services”

Mango	Flowering		<ul style="list-style-type: none"> - Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. - To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. - To protect from Mango fruit fly, Methyl Eugenol trap 0.1% may be used @ 10 traps per hectare. - Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
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.
Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase under polyhouse.
	Sowing		<ul style="list-style-type: none"> - Tomato nurseries should be raised under low cost polyhouse - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Give light irrigation to attain optimum soil moisture.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	<ol style="list-style-type: none"> 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. R₂B 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 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.
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

28th 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 29th January to 2nd February, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 27th January, 2014)

During the past four days the sky was clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 24.6 – 25.9 °C, range of minimum temperature observed was 4.3 – 5.5 °C, mean relative humidity observed in morning and afternoon were 90.25 % and 37.0 % respectively. The average wind speed range was 2.0 – 3.5 km/hr.

Weather forecast for next five days of Senapati (28th January to 2nd 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. 0.0 - 3.0 °C. Relative Humidity may reach a maximum value of 98 % (maximum RH) & 26 % (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 Siliqua		- During flowering four bee boxes may be kept in one hectare crop area. Avoid spray of insecticides in such area.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		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 & 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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry. - Apply nitrogen fertilizer as top dressing when the plant is knee high.
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			
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		- Transplanting may be done when seedlings are at 4-leaf stage.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.
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.



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



“Integrated Agromet Advisory Services”

Mango	Flowering		<ul style="list-style-type: none"> - Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. - To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. - To protect from Mango fruit fly, Methyl Eugenol trap 0.1% may be used @ 10 traps per hectare. - Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
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.
Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase under polyhouse.
	Sowing		<ul style="list-style-type: none"> - Tomato nurseries should be raised under low cost polyhouse - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Give light irrigation to attain optimum soil moisture.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	<ol style="list-style-type: none"> 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. R₂B 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 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.
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
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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

28th 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 29th January to 2nd February, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 27th January, 2014)

During the past four days the sky was clear to partly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 24.6 – 25.9 °C, range of minimum temperature observed was 4.3 – 5.5 °C, mean relative humidity observed in morning and afternoon were 90.25 % and 37.0 % respectively. The average wind speed range was 2.0 – 3.5 km/hr.

Weather forecast for next five days of Tamenglong (28th January to 2nd 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 100 % (maximum RH) & 27 % (minimum RH). The average wind speed may be 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 Siliqua		- During flowering four bee boxes may be kept in one hectare crop area. Avoid spray of insecticides in such area.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		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 & 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		- Thinning of pea may be done in vegetative stage of the crop. - Light irrigation may be given if the soil is dry. - Apply nitrogen fertilizer as top dressing when the plant is knee high.
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			
Cucurbits	Sowing		- Continue raising of cucurbits like bitter gourd, bottle gourd, cucumber, sponge gourd, etc. in poly pouch under low cost polyhouse.
	Transplanting		- Transplanting may be done when seedlings are at 4-leaf stage.
Tomato/ brinjal/ chilli	Land preparation for transplanting		- Land preparation for transplanting of tomato/ brinjal/ chilli may be done.
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.



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“Integrated Agromet Advisory Services”

Mango	Flowering		<ul style="list-style-type: none"> - Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. - To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. - To protect from Mango fruit fly, Methyl Eugenol trap 0.1% may be used @ 10 traps per hectare. - Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
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.
Tomato	Vegetative to flowering		- Proper staking should be provided to support during fruiting phase under polyhouse.
	Sowing		<ul style="list-style-type: none"> - Tomato nurseries should be raised under low cost polyhouse - Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. - Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag.
Onion/ Garlic	Vegetative		- Give light irrigation to attain optimum soil moisture.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	<ol style="list-style-type: none"> 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. R₂B 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 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.
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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