

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 4th March, 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 5th to 9th March, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th February to 3rd March, 2014)

The sky was mainly clear to partly cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. No rainfall was recorded during past four days. Maximum temperature range observed was $26.3-27.6\,^{\circ}\text{C}$, range of minimum temperature observed was $8.6-9.8\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $84.5\,\%$ and $41.5\,\%$ respectively. The average wind speed range was $4.6-6.5\,\text{km/hr}$.

Weather forecast for next five days of Churachandpur (5th to 9th March, 2014)

No rain is predicted upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 27.0-28.0 °C & minimum temp. 11.0-13.0 °C. Relative Humidity may reach a maximum of 88 % (maximum RH) & 27 % (minimum RH). The average wind speed may be 2-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			·
Pre-kharif Rice	Nursery and main field preparation		 - After 7-10 days of sowing, apply 17 kg Urea and 3.5 kg MOP per 700m² as top dressing along with 2 kg Carbofuran (3G) and spray 40 g of Carbendazim 50% WP in 40 litres of water. - If yellowing of tender leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water. - Before first ploughing of main field, apply well decomposed FYM @10-15 t/ha. After a cross plough, irrigate the field to 5-7 cm (2-3) inches depth. Submerge soil for 15-20 days before planting to obtain weed free plot.
Rapeseed/ Mustard	Maturity to harvesting		 Crop may be harvested when 75% of the siliquae mature. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Make small bundles of the harvest and keep in well ventilated shed in erect position for 4-5 days for better grain filling and better quality seeds.
Pulses	Maturity to		- Retain healthy pods of selected plants for seeds.
(Pea & Lentil)	harvesting		- Harvest mature pods.
Rabi Maize	Vegetative		- Earthing-up of rabi maize crop and top dress with nitrogen fertilizer may be done if the plant is knee high.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Cro	ps	ı	
Tomato/ Brinjal	Vegetative	Early blight	- Apply DM-45 (Mencozeb) @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
Potato	Maturity	Late blight	If incidence of late blight may be observed with the rains, it is advised to spray Metalaxyl based fungicide, like Redomil MZ-72 WP @ 2 gm/lit alternately with Mencozeb @ 2gm/lit of water at 14 days interval for 2-3 times.
Citrus	Nursery	Leaf Minor	- Spray Monocrotophos @ 1ml/ lit of water or Nuvan @ 0.05% or Cypermethrin @ 2 ml/ lit of water against leaf minor in nursery.
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		- Prepare for planting tree bean/ lime/ lemon/ banana.



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French Bean	Sowing		- Spacings: for dwarf variety like Anupama (30x45 cm from seed to seed & row to row) and for pole type Local variety (Tangkhul hawai) at 60x60 cm with 2-3 seeds per hill.
			- Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the time of sowing.
Onion/ Garlic	Bulb formation		 During the bulb formation stage, check that the neck portion is not covered with soil. Light hoeing and irrigation is necessary to keep soil moist during this
			phase.
Animal Scienc	es		J_#
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as	Coccidiosis	Give supercox @ 1g/lit of water + 150gm of glucose and vitamin K for 5-7 days.
	and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular).
			2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)	Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied by Livozyme @ 10 ml twice daily.
			- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
Mithun	of age (as and	H.S.	Vaccinate against Haemorhagic Septicaemia.
	when required)	B.Q.	Vaccinate against Black Quarter.
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MANIPUR BULLETIN 4th March, 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 5th to 9th March, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th February to 3rd March, 2014)

The sky was mainly clear to partly cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. No rainfall was recorded during past four days. Maximum temperature range observed was $26.3-27.6\,^{\circ}\text{C}$, range of minimum temperature observed was $8.6-9.8\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $84.5\,\%$ and $41.5\,\%$ respectively. The average wind speed range was $4.6-6.5\,\text{km/hr}$.

Weather forecast for next five days of Imphal - East (5th to 9th March, 2014)

No rain is predicted upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $27.0-29.0\,^{\circ}\text{C}$ & minimum temp. $12.0-14.0\,^{\circ}\text{C}$. Relative Humidity may reach a maximum of 87 % (maximum RH) & 21 % (minimum RH). The average wind speed may be 2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Pre-kharif Rice	Nursery and main field preparation		 - After 7-10 days of sowing, apply 17 kg Urea and 3.5 kg MOP per 700m² as top dressing along with 2 kg Carbofuran (3G) and spray 40 g of Carbendazim 50% WP in 40 litres of water. - If yellowing of tender leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water. - Before first ploughing of main field, apply well decomposed FYM @10-15 t/ha. After a cross plough, irrigate the field to 5-7 cm (2-3) inches depth. Submerge soil for 15-20 days before planting to obtain weed free plot.
Rapeseed/ Mustard	Maturity to harvesting		 Crop may be harvested when 75% of the siliquae mature. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Make small bundles of the harvest and keep in well ventilated shed in erect position for 4-5 days for better grain filling and better quality seeds.
Pulses	Maturity to		- Retain healthy pods of selected plants for seeds.
(Pea & Lentil)	harvesting		- Harvest mature pods.
Rabi Maize	Vegetative		- Earthing-up of rabi maize crop and top dress with nitrogen fertilizer may be done if the plant is knee high.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Cro	ps		
Tomato/ Brinjal	Vegetative	Early blight	- Apply DM-45 (Mencozeb) @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
Potato	Maturity	Late blight	If incidence of late blight may be observed with the rains, it is advised to spray Metalaxyl based fungicide, like Redomil MZ-72 WP @ 2 gm/lit alternately with Mencozeb @ 2gm/lit of water at 14 days interval for 2-3 times.
Citrus	Nursery	Leaf Minor	- Spray Monocrotophos @ 1ml/ lit of water or Nuvan @ 0.05% or Cypermethrin @ 2 ml/ lit of water against leaf minor in nursery.
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		- Prepare for planting tree bean/ lime/ lemon/ banana.



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French Bean	Sowing		- Spacings: for dwarf variety like Anupama (30x45 cm from seed to seed & row to row) and for pole type Local variety (Tangkhul hawai) at 60x60 cm with 2-3 seeds per hill.
			- Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the time of sowing.
Onion/ Garlic	Bulb formation		 During the bulb formation stage, check that the neck portion is not covered with soil. Light hoeing and irrigation is necessary to keep soil moist during this
			phase.
Animal Scienc	es		J. .
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as	Coccidiosis	Give supercox @ 1g/lit of water + 150gm of glucose and vitamin K for 5-7 days.
	and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular).
			2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)	Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied by Livozyme @ 10 ml twice daily.
			- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
Mithun	of age (as and	H.S.	Vaccinate against Haemorhagic Septicaemia.
	when required)	B.Q.	Vaccinate against Black Quarter.
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MANIPUR BULLETIN 4th March, 2014

Imphal-West

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Significant past weather for the preceding bi-weekly of Imphal - West (28th February to 3rd March, 2014)

The sky was mainly clear to partly cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. No rainfall was recorded during past four days. Maximum temperature range observed was $26.3-27.6\,^{\circ}\text{C}$, range of minimum temperature observed was $8.6-9.8\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $84.5\,\%$ and $41.5\,\%$ respectively. The average wind speed range was $4.6-6.5\,\text{km/hr}$.

Weather forecast for next five days of Imphal - West (5th to 9th March, 2014)

No rain is predicted upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $28.0-30.0\,^{\circ}\text{C}$ & minimum temp. $12.0-14.0\,^{\circ}\text{C}$. Relative Humidity may reach a maximum of 90 % (maximum RH) & 22 % (minimum RH). The average wind speed may be 2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			- J.
Pre-kharif Rice	Nursery and main field preparation		 - After 7-10 days of sowing, apply 17 kg Urea and 3.5 kg MOP per 700m² as top dressing along with 2 kg Carbofuran (3G) and spray 40 g of Carbendazim 50% WP in 40 litres of water. - If yellowing of tender leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water. - Before first ploughing of main field, apply well decomposed FYM @10-15 t/ha. After a cross plough, irrigate the field to 5-7 cm (2-3) inches depth. Submerge soil for 15-20 days before planting to obtain weed free plot.
Rapeseed/ Mustard	Maturity to harvesting		 Crop may be harvested when 75% of the siliquae mature. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Make small bundles of the harvest and keep in well ventilated shed in erect position for 4-5 days for better grain filling and better quality seeds.
Pulses (Pea & Lentil)	Maturity to harvesting		- Retain healthy pods of selected plants for seeds Harvest mature pods.
Rabi Maize	Vegetative	Stem borer	 - Earthing-up of rabi maize crop and top dress with nitrogen fertilizer may be done if the plant is knee high. - To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Cro	ps		
Tomato/ Brinjal	Vegetative	Early blight	- Apply DM-45 (Mencozeb) @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
Potato	Maturity	Late blight	If incidence of late blight may be observed with the rains, it is advised to spray Metalaxyl based fungicide, like Redomil MZ-72 WP @ 2 gm/lit alternately with Mencozeb @ 2gm/lit of water at 14 days interval for 2-3 times.
Citrus	Nursery	Leaf Minor	- Spray Monocrotophos @ 1ml/ lit of water or Nuvan @ 0.05% or Cypermethrin @ 2 ml/ lit of water against leaf minor in nursery.
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		- Prepare for planting tree bean/ lime/ lemon/ banana.



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French Bean	Sowing		- Spacings: for dwarf variety like Anupama (30x45 cm from seed to seed & row to row) and for pole type Local variety (Tangkhul hawai) at 60x60 cm with 2-3 seeds per hill.
			- Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the time of sowing.
Onion/ Garlic	Bulb formation		 During the bulb formation stage, check that the neck portion is not covered with soil. Light hoeing and irrigation is necessary to keep soil moist during this
			phase.
Animal Scienc	es		J. .
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as	Coccidiosis	Give supercox @ 1g/lit of water + 150gm of glucose and vitamin K for 5-7 days.
	and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular).
			2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)	Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied by Livozyme @ 10 ml twice daily.
			- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
Mithun	of age (as and	H.S.	Vaccinate against Haemorhagic Septicaemia.
	when required)	B.Q.	Vaccinate against Black Quarter.
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MANIPUR BULLETIN 4th March, 2014

Senapati

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Significant past weather for the preceding bi-weekly of Imphal - West (28th February to 3rd March, 2014)

The sky was mainly clear to partly cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. No rainfall was recorded during past four days. Maximum temperature range observed was $26.3-27.6\,^{\circ}\text{C}$, range of minimum temperature observed was $8.6-9.8\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $84.5\,\%$ and $41.5\,\%$ respectively. The average wind speed range was $4.6-6.5\,\text{km/hr}$.

Weather forecast for next five days of Senapati (5th to 9th March, 2014)

No rain is predicted upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $24.0-26.0\,^{\circ}\text{C}$ & minimum temp. $8.0-9.0\,^{\circ}\text{C}$. Relative Humidity may reach a maximum of $88\,\%$ (maximum RH) & $22\,\%$ (minimum RH). The average wind speed may be $2\,\text{km/hr}$ during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Nursery and main field preparation		 After 7-10 days of sowing, apply 17 kg Urea and 3.5 kg MOP per 700m² as top dressing along with 2 kg Carbofuran (3G) and spray 40 g of Carbendazim 50% WP in 40 litres of water. If yellowing of tender leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water. Before first ploughing of main field, apply well decomposed FYM @10-15 t/ha. After a cross plough, irrigate the field to 5-7 cm (2-3) inches depth. Submerge soil for 15-20 days before planting to obtain weed free plot.
Rapeseed/ Mustard	Maturity to harvesting		 Crop may be harvested when 75% of the siliquae mature. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Make small bundles of the harvest and keep in well ventilated shed in erect position for 4-5 days for better grain filling and better quality seeds.
Pulses	Maturity to		- Retain healthy pods of selected plants for seeds.
(Pea & Lentil)	harvesting		- Harvest mature pods.
Rabi Maize	Vegetative		- Earthing-up of rabi maize crop and top dress with nitrogen fertilizer may be done if the plant is knee high.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Cro	ps		
Tomato/ Brinjal	Vegetative	Early blight	- Apply DM-45 (Mencozeb) @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
Potato	Land preparation and planting		 - Prepare land and plant seed tubers when the soil is relatively dry. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Citrus	Nursery	Leaf Minor	- Spray Monocrotophos @ 1ml/ lit of water or Nuvan @ 0.05% or Cypermethrin @ 2 ml/ lit of water against leaf minor in nursery.
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		- Prepare for planting tree bean/ lime/ lemon/ banana.



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French Bean	Sowing		- Spacings: for dwarf variety like Anupama (30x45 cm from seed to seed & row to row) and for pole type Local variety (Tangkhul hawai) at 60x60 cm with 2-3 seeds per hill.
			- Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the time of sowing.
Onion/ Garlic	Bulb formation		 During the bulb formation stage, check that the neck portion is not covered with soil. Light hoeing and irrigation is necessary to keep soil moist during this
			phase.
Animal Scienc	es	,	•
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as	Coccidiosis	Give supercox @ 1g/lit of water + 150gm of glucose and vitamin K for 5-7 days.
	and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular).
			2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)	Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied by Livozyme @ 10 ml twice daily.
			- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
Mithun	of age (as and when required)	H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.
		1	J.



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MANIPUR BULLETIN 4th March, 2014

Ukhrul

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Weather forecast for next five days of Ukhrul (5th to 9th March, 2014)

No rain is predicted upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $24.0-25.0~^{\circ}\text{C}$ & minimum temp. $7.0-9.0~^{\circ}\text{C}$. Relative Humidity may reach a maximum of 74 % (maximum RH) & 28 % (minimum RH). The average wind speed may be 4-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Nursery and main field preparation		 - After 7-10 days of sowing, apply 17 kg Urea and 3.5 kg MOP per 700m² as top dressing along with 2 kg Carbofuran (3G) and spray 40 g of Carbendazim 50% WP in 40 litres of water. - If yellowing of tender leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water. - Before first ploughing of main field, apply well decomposed FYM @10-15 t/ha. After a cross plough, irrigate the field to 5-7 cm (2-3) inches depth. Submerge soil for 15-20 days before planting to obtain weed free plot.
Rapeseed/ Mustard	Maturity to harvesting		 Crop may be harvested when 75% of the siliquae mature. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Make small bundles of the harvest and keep in well ventilated shed in erect position for 4-5 days for better grain filling and better quality seeds.
Pulses (Pea & Lentil)	Maturity to harvesting		- Retain healthy pods of selected plants for seeds Harvest mature pods.
Rabi Maize	Vegetative	Stem borer	 - Earthing-up of rabi maize crop and top dress with nitrogen fertilizer may be done if the plant is knee high. - To control the infestation of stem borer, apply few granules of
Storage			Carbofuradan 3G at maize whorl. - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Cro	ps		<u> </u>
Tomato/ Brinjal	Vegetative	Early blight	- Apply DM-45 (Mencozeb) @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
Potato	Land preparation and planting		 - Prepare land and plant seed tubers when the soil is relatively dry. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Citrus	Nursery	Leaf Minor	- Spray Monocrotophos @ 1ml/ lit of water or Nuvan @ 0.05% or Cypermethrin @ 2 ml/ lit of water against leaf minor in nursery.
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		- Prepare for planting tree bean/ lime/ lemon/ banana.



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French Bean	Sowing		- Spacings: for dwarf variety like Anupama (30x45 cm from seed to seed
			& row to row) and for pole type Local variety (Tangkhul hawai) at 60x60
			cm with 2-3 seeds per hill.
			- Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the
			time of sowing.
Onion/ Garlic	Bulb formation		- During the bulb formation stage, check that the neck portion is not
			covered with soil.
			- Light hoeing and irrigation is necessary to keep soil moist during this
			phase.
Animal Science		T =	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as	Coccidiosis	Give supercox @ 1g/lit of water + 150gm of glucose and vitamin K for 5-7 days.
	and when	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given
	required)	Kanikhet disease	at 30days for all birds (eye drop/ ocular).
			2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly
			@ 0.2 cc/ bird).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers)
			(intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
Cheen/Coet	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
Sheep/ Goat	of age (as and		
	when required)	H.S.	Vaccinate against Haemorhagic Septicaemia.
	when required)	B.Q.	Vaccinate against Black Quarter.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)	Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied by
		_	Livozyme @ 10 ml twice daily.
			- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
Mithun	of age (as and	H.S.	Vaccinate against Haemorhagic Septicaemia.
	when required)	B.Q.	Vaccinate against Black Quarter.



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MANIPUR BULLETIN 4th March, 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 5th to 9th March, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th February to 3rd March, 2014)

The sky was mainly clear to partly cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. No rainfall was recorded during past four days. Maximum temperature range observed was $26.3-27.6\,^{\circ}\text{C}$, range of minimum temperature observed was $8.6-9.8\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $84.5\,\%$ and $41.5\,\%$ respectively. The average wind speed range was $4.6-6.5\,\text{km/hr}$.

Weather forecast for next five days of Tamenglong (5th to 9th March, 2014)

No rain is predicted upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $27.0-30.0\,^{\circ}\text{C}$ & minimum temp. $13.0-15.0\,^{\circ}\text{C}$. Relative Humidity may reach a maximum of 90 % (maximum RH) & 24 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	ı		
Pre-kharif Rice	Nursery and main field preparation		 - After 7-10 days of sowing, apply 17 kg Urea and 3.5 kg MOP per 700m² as top dressing along with 2 kg Carbofuran (3G) and spray 40 g of Carbendazim 50% WP in 40 litres of water. - If yellowing of tender leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water. - Before first ploughing of main field, apply well decomposed FYM @10-15 t/ha. After a cross plough, irrigate the field to 5-7 cm (2-3) inches depth. Submerge soil for 15-20 days before planting to obtain weed free plot.
Rapeseed/ Mustard	Maturity to harvesting		 Crop may be harvested when 75% of the siliquae mature. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Make small bundles of the harvest and keep in well ventilated shed in erect position for 4-5 days for better grain filling and better quality seeds.
Pulses	Maturity to		- Retain healthy pods of selected plants for seeds.
(Pea & Lentil) Rabi Maize	harvesting		- Harvest mature pods.
Rabi Maize	Vegetative		- Earthing-up of rabi maize crop and top dress with nitrogen fertilizer may be done if the plant is knee high.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Cro	ps		
Tomato/ Brinjal	Vegetative	Early blight	- Apply DM-45 (Mencozeb) @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
Potato	Maturity	Late blight	If incidence of late blight may be observed with the rains, it is advised to spray Metalaxyl based fungicide, like Redomil MZ-72 WP @ 2 gm/lit alternately with Mencozeb @ 2gm/lit of water at 14 days interval for 2-3 times.
Citrus	Nursery	Leaf Minor	- Spray Monocrotophos @ 1ml/ lit of water or Nuvan @ 0.05% or Cypermethrin @ 2 ml/ lit of water against leaf minor in nursery.
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		- Prepare for planting tree bean/ lime/ lemon/ banana.



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French Bean	Sowing		- Spacings: for dwarf variety like Anupama (30x45 cm from seed to seed
			& row to row) and for pole type Local variety (Tangkhul hawai) at 60x60
			cm with 2-3 seeds per hill.
			- Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the
			time of sowing.
Onion/ Garlic	Bulb formation		- During the bulb formation stage, check that the neck portion is not
			covered with soil.
			- Light hoeing and irrigation is necessary to keep soil moist during this
			phase.
Animal Science			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Coccidiosis	Give supercox @ 1g/lit of water + 150gm of glucose and vitamin K for 5-
	age groups (as	D '11 . 1'	7 days.
	and when required)	Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given
			at 30days for all birds (eye drop/ ocular). 2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly
			@ 0.2 cc/ bird).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers)
			(intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
Sheep/ Goat	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
	of age (as and	H.S.	Vaccinate against Haemorhagic Septicaemia.
	when required)	B.Q.	Vaccinate against Black Quarter.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
	when required)	Endoparasite	- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied by
			Livozyme @ 10 ml twice daily.
			- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/	Above 3 months	FMD	Vaccinate against Foot and mouth disease.
Mithun	of age (as and	H.S.	Vaccinate against Haemorhagic Septicaemia.
	when required)	B.Q.	Vaccinate against Black Quarter.



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MANIPUR BULLETIN 4th March, 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 5th to 9th March, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th February to 3rd March, 2014)

The sky was mainly clear to partly cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. No rainfall was recorded during past four days. Maximum temperature range observed was $26.3-27.6\,^{\circ}\text{C}$, range of minimum temperature observed was $8.6-9.8\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $84.5\,\%$ and $41.5\,\%$ respectively. The average wind speed range was $4.6-6.5\,\text{km/hr}$.

Weather forecast for next five days of Thoubal (5th to 9th March, 2014)

No rain is predicted upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $26.0-28.0~^{\circ}\text{C}$ & minimum temp. $10.0-12.0~^{\circ}\text{C}$. Relative Humidity may reach a maximum of 78 % (maximum RH) & 26 % (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			
Pre-kharif Rice	Nursery and main field preparation		 - After 7-10 days of sowing, apply 17 kg Urea and 3.5 kg MOP per 700m² as top dressing along with 2 kg Carbofuran (3G) and spray 40 g of Carbendazim 50% WP in 40 litres of water. - If yellowing of tender leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water. - Before first ploughing of main field, apply well decomposed FYM @10-15 t/ha. After a cross plough, irrigate the field to 5-7 cm (2-3) inches depth. Submerge soil for 15-20 days before planting to obtain weed free plot.
Rapeseed/ Mustard	Maturity to harvesting		 Crop may be harvested when 75% of the siliquae mature. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Make small bundles of the harvest and keep in well ventilated shed in erect position for 4-5 days for better grain filling and better quality seeds.
Pulses	Maturity to		- Retain healthy pods of selected plants for seeds.
(Pea & Lentil)	harvesting		- Harvest mature pods.
Rabi Maize	Vegetative	Stem borer	 - Earthing-up of rabi maize crop and top dress with nitrogen fertilizer may be done if the plant is knee high. - To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Cro	ps	ı	
Tomato/ Brinjal	Vegetative	Early blight	- Apply DM-45 (Mencozeb) @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
Potato	Maturity	Late blight	If incidence of late blight may be observed with the rains, it is advised to spray Metalaxyl based fungicide, like Redomil MZ-72 WP @ 2 gm/lit alternately with Mencozeb @ 2gm/lit of water at 14 days interval for 2-3 times.
Citrus	Nursery	Leaf Minor	- Spray Monocrotophos @ 1ml/ lit of water or Nuvan @ 0.05% or Cypermethrin @ 2 ml/ lit of water against leaf minor in nursery.
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		- Prepare for planting tree bean/ lime/ lemon/ banana.



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French Bean	Sowing		 Spacings: for dwarf variety like Anupama (30x45 cm from seed to seed & row to row) and for pole type Local variety (Tangkhul hawai) at 60x60 cm with 2-3 seeds per hill. Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the time of sowing.
Onion/ Garlic	Bulb formation		 During the bulb formation stage, check that the neck portion is not covered with soil. Light hoeing and irrigation is necessary to keep soil moist during this phase.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give supercox @ 1g/lit of water + 150gm of glucose and vitamin K for 5-7 days.
		Ranikhet disease	 F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). R₂B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.
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.
			- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.



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MANIPUR BULLETIN 4th March, 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 5th to 9th March, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th February to 3rd March, 2014)

The sky was mainly clear to partly cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. No rainfall was recorded during past four days. Maximum temperature range observed was $26.3-27.6\,^{\circ}\text{C}$, range of minimum temperature observed was $8.6-9.8\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $84.5\,\%$ and $41.5\,\%$ respectively. The average wind speed range was $4.6-6.5\,\text{km/hr}$.

Weather forecast for next five days of Bishnupur (5th to 9th March, 2014)

No rain is predicted upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 27.0-28.0 °C & minimum temp. 12.0-13.0 °C. Relative Humidity may reach a maximum of 82 % (maximum RH) & 26 % (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	ı		
Pre-kharif Rice	Nursery and main field preparation		 - After 7-10 days of sowing, apply 17 kg Urea and 3.5 kg MOP per 700m² as top dressing along with 2 kg Carbofuran (3G) and spray 40 g of Carbendazim 50% WP in 40 litres of water. - If yellowing of tender leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water. - Before first ploughing of main field, apply well decomposed FYM @10-15 t/ha. After a cross plough, irrigate the field to 5-7 cm (2-3) inches depth. Submerge soil for 15-20 days before planting to obtain weed free plot.
Rapeseed/ Mustard	Maturity to harvesting		 Crop may be harvested when 75% of the siliquae mature. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Make small bundles of the harvest and keep in well ventilated shed in erect position for 4-5 days for better grain filling and better quality seeds.
Pulses	Maturity to		- Retain healthy pods of selected plants for seeds.
(Pea & Lentil)	harvesting		- Harvest mature pods.
Rabi Maize	Vegetative		- Earthing-up of rabi maize crop and top dress with nitrogen fertilizer may be done if the plant is knee high.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Cro	ps		
Tomato/ Brinjal	Vegetative	Early blight	- Apply DM-45 (Mencozeb) @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
Potato	Maturity	Late blight	If incidence of late blight may be observed with the rains, it is advised to spray Metalaxyl based fungicide, like Redomil MZ-72 WP @ 2 gm/lit alternately with Mencozeb @ 2gm/lit of water at 14 days interval for 2-3 times.
Citrus	Nursery	Leaf Minor	- Spray Monocrotophos @ 1ml/ lit of water or Nuvan @ 0.05% or Cypermethrin @ 2 ml/ lit of water against leaf minor in nursery.
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		- Prepare for planting tree bean/ lime/ lemon/ banana.



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



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French Bean	Sowing		 Spacings: for dwarf variety like Anupama (30x45 cm from seed to seed & row to row) and for pole type Local variety (Tangkhul hawai) at 60x60 cm with 2-3 seeds per hill. Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the time of sowing.
Onion/ Garlic	Bulb formation		 During the bulb formation stage, check that the neck portion is not covered with soil. Light hoeing and irrigation is necessary to keep soil moist during this phase.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give supercox @ 1g/lit of water + 150gm of glucose and vitamin K for 5-7 days.
		Ranikhet disease	 F-1 Strain first dose within 7 days of age and second dose may be given at 30days for all birds (eye drop/ ocular). R₂B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird). Killed ND virus vaccine of 16-18 weeks of age group birds (layers) (intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.
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.
			- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.



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MANIPUR BULLETIN 4th March, 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 5th to 9th March, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th February to 3rd March, 2014)

The sky was mainly clear to partly cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. No rainfall was recorded during past four days. Maximum temperature range observed was $26.3-27.6\,^{\circ}\text{C}$, range of minimum temperature observed was $8.6-9.8\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $84.5\,\%$ and $41.5\,\%$ respectively. The average wind speed range was $4.6-6.5\,\text{km/hr}$.

Weather forecast for next five days of Chandel (5th to 9th March, 2014)

No rain is predicted upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 28.0-30.0 °C & minimum temp. 12.0-14.0 °C. Relative Humidity may reach a maximum of 73 % (maximum RH) & 30 % (minimum RH). The average wind speed may be 5-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Pre-kharif Rice	Nursery and main field preparation		 - After 7-10 days of sowing, apply 17 kg Urea and 3.5 kg MOP per 700m² as top dressing along with 2 kg Carbofuran (3G) and spray 40 g of Carbendazim 50% WP in 40 litres of water. - If yellowing of tender leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water. - Before first ploughing of main field, apply well decomposed FYM @10-15 t/ha. After a cross plough, irrigate the field to 5-7 cm (2-3) inches depth. Submerge soil for 15-20 days before planting to obtain weed free plot.
Rapeseed/ Mustard	Maturity to harvesting		 Crop may be harvested when 75% of the siliquae mature. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Make small bundles of the harvest and keep in well ventilated shed in erect position for 4-5 days for better grain filling and better quality seeds.
Pulses	Maturity to		- Retain healthy pods of selected plants for seeds.
(Pea & Lentil)	harvesting		- Harvest mature pods.
Rabi Maize	Vegetative	G. 1	- Earthing-up of rabi maize crop and top dress with nitrogen fertilizer may be done if the plant is knee high.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, well ventilated rooms must be used for storage of grains/ seeds.
Horticulture Cro	ps		
Tomato/ Brinjal	Vegetative	Early blight	- Apply DM-45 (Mencozeb) @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
Potato	Maturity	Late blight	If incidence of late blight may be observed with the rains, it is advised to spray Metalaxyl based fungicide, like Redomil MZ-72 WP @ 2 gm/lit alternately with Mencozeb @ 2gm/lit of water at 14 days interval for 2-3 times.
Citrus	Nursery	Leaf Minor	- Spray Monocrotophos @ 1ml/ lit of water or Nuvan @ 0.05% or Cypermethrin @ 2 ml/ lit of water against leaf minor in nursery.
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		- Prepare for planting tree bean/ lime/ lemon/ banana.



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



"Integrated Agromet Advisory Services"

French Bean	Sowing		- Spacings: for dwarf variety like Anupama (30x45 cm from seed to seed
			& row to row) and for pole type Local variety (Tangkhul hawai) at 60x60
			cm with 2-3 seeds per hill.
			- Apply 12-13 kg Urea, 12-15 kg SSP and 40-45 kg MOP per ha at the
			time of sowing.
Onion/ Garlic	Bulb formation		- During the bulb formation stage, check that the neck portion is not
			covered with soil.
			- Light hoeing and irrigation is necessary to keep soil moist during this
			phase.
Animal Science		T	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give supercox @ 1g/lit of water + 150gm of glucose and vitamin K for 5-
		B 111 11	7 days.
		Ranikhet disease	1. F-1 Strain first dose within 7 days of age and second dose may be given
			at 30days for all birds (eye drop/ ocular).
			2. R ₂ B vaccine to 8-9 weeks of age group birds (layers) (intra-muscularly @ 0.2 cc/ bird).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers)
			(intra-muscularly).
		Deworming	Deworming may be done using Piperazine Citrate @ 50 ml in drinking water for 100 birds.
Sheep/ Goat	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.
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.
			- Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	FMD	Vaccinate against Foot and mouth disease.
		H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.