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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th March, 2014

Churachandpur

Significant past weather for the preceding bi-weekly of Imphal - West (4 th to 6 th March, 2014)	$\frac{\text{Weather forecast for next five days of Churachandpur}}{(8^{\text{th}} \text{ to } 12^{\text{th}} \text{ March, } 2014)}$
The sky was mainly cloudy to cloudy during 4 th to 5 th morning hours and mainly clear to partly cloudy from afternoon hours of 5 th to 6 th March. No rainfall was recorded during past three days. Maximum temperature range observed was 25.2 – 28.7 °C, range of minimum temperature observed was 8.5 – 13.2 °C, mean relative humidity observed in morning and afternoon were 83.3 % and 41.3 % respectively. The average wind speed range was 1.5 – 5.4 km/hr.	No rain is predicted upto Wednesday. Sky may be mainly clear but partly to mainly cloudy on Tuesday with maximum temp. of 26.0 °C & minimum temp. 8.0 - 9.0 °C. Relative Humidity may reach a maximum of 84 % (maximum RH) & 21 % (minimum RH). The average wind speed may be 4-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1	L	
Pre-kharif Rice	Nursery and main field preparation		 After 7-10 days of sowing, apply 10 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 leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water to control plant hopper 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 3-4 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, store grains/ seeds in well ventilated godowns.
Horticulture Cro	ps		
Ginger/ turmeric	Planting		 While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP. Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
Tomato/ Brinjal	Vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.





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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 Cypermethrin @ 2.5 ml/ lit of water against leaf minor in nursery.
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	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry All susceptible age groups (as and when required)	Coccidiosis Ranikhet disease	 Give supercox @ 1g/lit of water + 150gm of glucose and vitamin K for 5-7 days. 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 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 when required)	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/	Above 3 months	FMD	
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	FMD H.S.	- Administer Minamil powder @ 15-20g/ day in feed.

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MANIPUR BULLETIN 7th March, 2014

Imphal-East

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - East
Imphal - West (4 th to 6 th March, 2014)	(8 th to 12 th March, 2014)
The sky was mainly cloudy to cloudy during 4^{th} to 5^{th} morning hours and mainly clear to partly cloudy from afternoon hours of 5^{th} to 6^{th} March. No rainfall was recorded during past three days. Maximum temperature range observed was $25.2 - 28.7$ °C, range of minimum temperature observed was $8.5 - 13.2$ °C, mean relative humidity observed in morning and afternoon were 83.3 % and 41.3 % respectively. The average wind speed range was $1.5 - 5.4$ km/hr.	No rain is predicted upto Wednesday. Sky may be mainly clear but partly to mainly cloudy on Tuesday with maximum temp. of $27.0 - 28.0$ °C & minimum temp. $8.0 - 9.0$ °C. Relative Humidity may reach a maximum of 87 % (maximum RH) & 19 % (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	1		
Pre-kharif Rice	Nursery and main field preparation		 After 7-10 days of sowing, apply 10 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 leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water to control plant hopper 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 3-4 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, store grains/ seeds in well ventilated godowns.
Horticulture Cro	ps		
Ginger/ turmeric	Planting		 While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP. Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
Tomato/ Brinjal	Vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.





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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 Cypermethrin @ 2.5 ml/ lit of water against leaf minor in nursery.
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	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry All susceptible age groups (as and when required)	Coccidiosis Ranikhet disease	 Give supercox @ 1g/lit of water + 150gm of glucose and vitamin K for 5-7 days. 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 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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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th March, 2014

Imphal-West

Significant past weather for the preceding bi-weekly of Imphal - West (4 th to 6 th March, 2014)	Weather forecast for next five days of Imphal - West (8 th to 12 th March, 2014)
The sky was mainly cloudy to cloudy during 4^{th} to 5^{th} morning hours and mainly clear to partly cloudy from afternoon hours of 5^{th} to 6^{th} March. No rainfall was recorded during past three days. Maximum temperature range observed was $25.2 - 28.7$ °C, range of minimum temperature observed was $8.5 - 13.2$ °C, mean relative humidity observed in morning and afternoon were 83.3 % and 41.3 % respectively. The average wind speed range was $1.5 - 5.4$ km/hr.	No rain is predicted upto Wednesday. Sky may be mainly clear but partly to mainly cloudy on Tuesday with maximum temp. of 27.0 °C & minimum temp. 8.0 – 9.0 °C. Relative Humidity may reach a maximum of 87 % (maximum RH) & 19 % (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			
Pre-kharif Rice	Nursery and main field preparation		 After 7-10 days of sowing, apply 10 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 leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water to control plant hopper 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 3-4 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, store grains/ seeds in well ventilated godowns.
Horticulture Cro	ps		
Ginger/ turmeric	Planting		 While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP. Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
Tomato/ Brinjal	Vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.





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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 Cypermethrin @ 2.5 ml/ lit of water against leaf minor in nursery.
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	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry All susceptible age groups (as and when required)	Coccidiosis Ranikhet disease	 Give supercox @ 1g/lit of water + 150gm of glucose and vitamin K for 5-7 days. 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 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)		- Administer Minthal bolus @ 1 bolus/ 40 kg b.wt. accompanied by
	when required)	Endoparasite	Livozyme @ 10 ml twice daily.
	when required)	Endoparasite	
Cattle / Buffalo/	Above 3 months	Endoparasite FMD	Livozyme @ 10 ml twice daily.
Cattle / Buffalo/ Mithun			Livozyme @ 10 ml twice daily Administer Minamil powder @ 15-20g/ day in feed.

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MANIPUR BULLETIN 7th March, 2014

Senapati

Significant past weather for the preceding bi-weekly of Imphal - West (4 th to 6 th March, 2014)	Weather forecast for next five days of Senapati (8 th to 12 th March, 2014)
The sky was mainly cloudy to cloudy during 4^{th} to 5^{th} morning hours and mainly clear to partly cloudy from afternoon hours of 5^{th} to 6^{th} March. No rainfall was recorded during past three days. Maximum temperature range observed was $25.2 - 28.7$	No rain is predicted upto Wednesday. Sky may be mainly clear but partly to mainly cloudy on Tuesday with maximum temp. of 23.0 - 24.0 °C & minimum temp. 7.0 - 8.0 °C. Relative Humidity may reach a maximum of 82 %
$^{\circ}$ C, range of minimum temperature observed was 8.5 – 13.2 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 83.3 % and 41.3 % respectively. The average wind speed range was 1.5 – 5.4 km/hr.	(maximum RH) & 20 % (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	1		
Pre-kharif Rice	Nursery and main field preparation		 After 7-10 days of sowing, apply 10 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 leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water to control plant hopper 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 3-4 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, store grains/ seeds in well ventilated godowns.
Horticulture Cro	ps		
Ginger/ turmeric	Planting		 While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP. Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
Tomato/ Brinjal	Vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.





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Citrus	Nursery	Leaf Minor	- Spray Monocrotophos @ 1ml/ lit of water or Cypermethrin @ 2.5 ml/ lit of water against leaf minor in nursery.
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	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	 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	FMD	Vaccinate against Foot and mouth disease.
	of age (as and	H.S.	Vaccinate against Haemorhagic Septicaemia.
when required)	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	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)	when required)	B.Q.	Vaccinate against Black Quarter.

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th March, 2014

Tamenglong

Significant past weather for the preceding bi-weekly of Imphal - West (4 th to 6 th March, 2014)	Weather forecast for next five days of Tamenglong (8 th to 12 th March, 2014)
The sky was mainly cloudy to cloudy during 4 th to 5 th morning hours and mainly clear to partly cloudy from afternoon hours of 5 th to 6 th March. No rainfall was recorded during past three days. Maximum temperature range observed was $25.2 - 28.7$ °C, range of minimum temperature observed was $8.5 - 13.2$ °C, mean relative humidity observed in morning and afternoon were 83.3 % and 41.3 % respectively. The average wind speed range was $1.5 - 5.4$ km/hr.	No rain is predicted upto Wednesday. Sky may be mainly clear but partly to mainly cloudy on Tuesday with maximum temp. of 24.0 °C & minimum temp. 7.0 - 8.0 °C. Relative Humidity may reach a maximum of 86 % (maximum RH) & 20 % (minimum RH). The average wind speed may be 3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1	L	
Pre-kharif Rice	Nursery and main field preparation		 After 7-10 days of sowing, apply 10 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 leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water to control plant hopper 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 3-4 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, store grains/ seeds in well ventilated godowns.
Horticulture Cro	ps		
Ginger/ turmeric	Planting		 While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP. Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
Tomato/ Brinjal	Vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.





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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 Cypermethrin @ 2.5 ml/ lit of water against leaf minor in nursery.
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	es	· ·	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry All susceptible age groups (as and when required)	Coccidiosis Ranikhet disease	Give supercox @ 1g/lit of water + 150gm of glucose and vitamin K for 5- 7 days.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 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.
			Livozyme @ 10 ml twice daily. - Administer Minamil powder @ 15-20g/ day in feed.
Cattle / Buffalo/	Above 3 months	FMD	
Cattle / Buffalo/ Mithun			- Administer Minamil powder @ 15-20g/ day in feed.

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MANIPUR BULLETIN 7th March, 2014

Thoubal

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal
Imphal - West (4 th to 6 th March, 2014)	$(8^{th} to 12^{th} March, 2014)$
The sky was mainly cloudy to cloudy during 4 th to 5 th morning	No main is madiated unto Wadnesday. Shu may be mainly
	No rain is predicted upto Wednesday. Sky may be mainly
hours and mainly clear to partly cloudy from afternoon hours	clear but partly to mainly cloudy on Tuesday with
of 5 th to 6 th March. No rainfall was recorded during past three	maximum temp. of $25.0 - 26.0$ °C & minimum temp. 8.0 -
days. Maximum temperature range observed was 25.2 – 28.7	9.0 °C. Relative Humidity may reach a maximum of 72 %
^o C, range of minimum temperature observed was 8.5 – 13.2	(maximum RH) & 20 % (minimum RH). The average
°C, mean relative humidity observed in morning and afternoon	wind speed may be 4-6 km/hr during next five days.
were 83.3 % and 41.3 % respectively. The average wind speed	
range was $1.5 - 5.4$ km/hr.	

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 10 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 leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water to control plant hopper 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 3-4 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, store grains/ seeds in well ventilated godowns.
Horticulture Cro	ps	·	
Ginger/ turmeric	Planting		 While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP. Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
Tomato/ Brinjal	Vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.





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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 Cypermethrin @ 2.5 ml/ lit of water against leaf minor in nursery.
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	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis Ranikhet disease	 Give supercox @ 1g/lit of water + 150gm of glucose and vitamin K for 5-7 days. 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 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 when required)	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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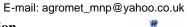
MANIPUR BULLETIN 7th March, 2014

Ukhrul

Significant past weather for the preceding bi-weekly of $\frac{1}{2}$	Weather forecast for next five days of Ukhrul $(a^{th} + 1a^{th}) = 1 - 2a(1)$
Imphal - West (4 th to 6 th March, 2014)	$(8^{th} to 12^{th} March, 2014)$
The sky was mainly cloudy to cloudy during 4 th to 5 th morning	No rain is predicted upto Wednesday. Sky may be mainly
hours and mainly clear to partly cloudy from afternoon hours	clear but partly to mainly cloudy on Tuesday with
of 5 th to 6 th March. No rainfall was recorded during past three	maximum temp. of 23.0 °C & minimum temp. 7.0 °C.
days. Maximum temperature range observed was 25.2 – 28.7	Relative Humidity may reach a maximum of 66 %
°C, range of minimum temperature observed was 8.5 – 13.2	(maximum RH) & 21 % (minimum RH). The average
°C, mean relative humidity observed in morning and afternoon	wind speed may be 4-5 km/hr during next five days.
were 83.3 % and 41.3 % respectively. The average wind speed	
range was $1.5 - 5.4$ km/hr.	

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 10 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 leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water to control plant hopper 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 3-4 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, store grains/ seeds in well ventilated godowns.
Horticulture Cro	ps		
Ginger/ turmeric	Planting		 While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP. Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
Tomato/ Brinjal	Vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.







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Citrus	Nursery	Leaf Minor	- Spray Monocrotophos @ 1ml/ lit of water or Cypermethrin @ 2.5 ml/ lit of water against leaf minor in nursery.
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	 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	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 7th March, 2014

Bishnupur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur
Imphal - West (4 th to 6 th March, 2014)	(8 th to 12 th March, 2014)
The sky was mainly cloudy to cloudy during 4 th to 5 th morning	No rain is predicted upto Wednesday. Sky may be mainly
hours and mainly clear to partly cloudy from afternoon hours	clear but partly to mainly cloudy on Tuesday with
of 5 th to 6 th March. No rainfall was recorded during past three	maximum temp. of 28.0 °C & minimum temp. 10.0 °C.
days. Maximum temperature range observed was $25.2 - 28.7$	Relative Humidity may reach a maximum of 78 %
°C, range of minimum temperature observed was 8.5 – 13.2	(maximum RH) & 20 % (minimum RH). The average
°C, mean relative humidity observed in morning and afternoon	wind speed may be 4 km/hr during next five days.
were 83.3 % and 41.3 % respectively. The average wind speed	
range was $1.5 - 5.4$ km/hr.	

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 10 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 leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water to control plant hopper 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 3-4 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, store grains/ seeds in well ventilated godowns.
Horticulture Cro	ps		
Ginger/ turmeric	Planting		 While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP. Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
Tomato/ Brinjal	Vegetative	Early blight	 Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.





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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 Cypermethrin @ 2.5 ml/ lit of water against leaf minor in nursery.
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	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Coccidiosis Ranikhet disease Deworming	Give supercox @ 1g/lit of water + 150gm of glucose and vitamin K for 5-7 days. 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 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 when required)	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/	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 7th March, 2014

Chandel

Significant past weather for the preceding bi-weekly of $\frac{1}{2}$	Weather forecast for next five days of Chandel $(a^{th} + a^{th}) = 1 + 2a(t)$
Imphal - West (4 th to 6 th March, 2014)	$(8^{th} to 12^{th} March, 2014)$
The sky was mainly cloudy to cloudy during 4 th to 5 th morning	No rain is predicted upto Wednesday. Sky may be mainly
hours and mainly clear to partly cloudy from afternoon hours	clear but partly to mainly cloudy on Tuesday with
of 5 th to 6 th March. No rainfall was recorded during past three	maximum temp. of $25.0 - 26.0$ °C & minimum temp. 9.0
days. Maximum temperature range observed was $25.2 - 28.7$	°C. Relative Humidity may reach a maximum of 61 %
°C, range of minimum temperature observed was 8.5 – 13.2	(maximum RH) & 21 % (minimum RH). The average
°C, mean relative humidity observed in morning and afternoon	wind speed may be 5-6 km/hr during next five days.
were 83.3 % and 41.3 % respectively. The average wind speed	
range was $1.5 - 5.4$ km/hr.	

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 10 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 leaves of seedlings is observed, spray Chloropyriphos 0.05% @ 2ml/lit water to control plant hopper 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 3-4 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, store grains/ seeds in well ventilated godowns.
Horticulture Cro	ps		
Ginger/ turmeric	Planting		 While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP. Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mencozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
Tomato/ Brinjal	Vegetative	Early blight	 Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.





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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 Cypermethrin @ 2.5 ml/ lit of water against leaf minor in nursery.
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	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
age gr and w	All susceptible age groups (as and when required)	Coccidiosis Ranikhet disease	 Give supercox @ 1g/lit of water + 150gm of glucose and vitamin K for 5-7 days. 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 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	FMD	Vaccinate against Foot and mouth disease.
	of age (as and when required)	H.S.	Vaccinate against Haemorhagic Septicaemia.
		B.Q.	Vaccinate against Black Quarter.