



# Integrated Agromet Advisory Service Bulletin from 26<sup>th</sup> to 30<sup>th</sup> Jan'18 Dimapur District

## **Bulletin No:08/2018**

Weather summary of the preceding week	Weather forecast valid upto 30 <sup>th</sup> Jan 2018
■ No rain occurred the past week	Probability of no rain the coming week.
	■ Max temp is likely to be 24°C - 25°C and the min temp 12°C to 13°C
$23^{\circ}$ C and $7^{\circ}$ C to $10^{\circ}$ C, respectively.	Sky is likely to be clear the coming week
■ Relative humidity varied from 40% to 88%.	■ <b>Relative Humidity</b> is likely to range from 22% to 90%.
■ Wind speed ranged from 3 to 4 kmph	■ Wind speed may reach upto 2-3 kmph
	Wind direction will be easterly

#### **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

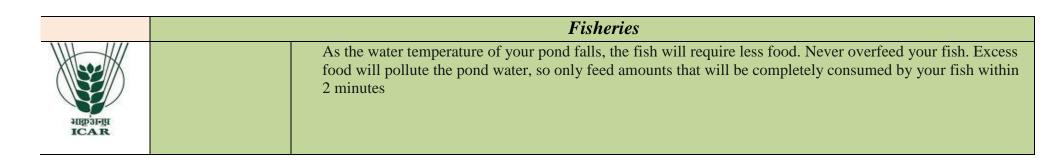
## Field crops

Main Crops	Stage	Pest/	Agro-meteorological Advisories
		Diseases	
TRC/WRC paddy	Storage		Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.
Toria	Maturing stage	-	Keep the field free from weeds and daily scouting of the field should be done for aphid
Rabi maize	Silking stage		Weeding and earthing up should be carried out
Linseed/lentil	vegetative stage		Soil moisture conservation techniques like mulching with crop residue is recommended
Horticultural crop			

#### Horticultural crop

Khasi mandarin	Harvesting stage		Harvest the ripened fruits at the right time. Collect and discard the fallen fruits
Vegetables			Intercultural operations in vegetables are advised to remove the weeds.
Cauliflower, cabbage,		Black spot Cut worm	Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from

		the leaf margins. They become black later. The veins and veinlets become black.  Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further detoriation. The cabbage heads and cauliflower curds are invaded and become discoloured.  To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil		
		Spray Neem seed kernel extract @500g/ha twice at 10 days interval.  Frequent Monitoring should be done and mechanically destroy the caterpillar		
Litchi		Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors		
Ginger / turmeric	Maturity stage	For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.		
• Animals 20% in t	<ul> <li>Livestock</li> <li>Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrahagic Septicaemia, Anthrax</li> <li>Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% 20% in the daily ration during winter season to meet the energy requirement of the animals</li> <li>Avoid feeding of damp and foul smelling feed to all livestock and poultry</li> </ul>			
Poultry	_	entilation but prevent chill air from entering in		
		ks and crevices in the house		
		n be used during severe winds and draft thus sealing the house from cold draft e added to feed and energy levels in the feed can be raised to meet the higher energy need		
	of the bird	added to feed and energy levers in the feed can be faised to meet the higher energy need		
	Provide warm w	vater to the birds		
<ul> <li>Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once symptoms is noticed, immediately informed the nearby veterinary doctor</li> <li>Sick or injured animals should be attended to immediately, preferably move to a warm comfort environment. Medications should be used only on the advice of a veterinarian, following recomme treatment.</li> </ul>				



Sl.no	Name	Designation	Department	
1	Dr.D.J. Rajkhowa	Principle Scientist	Agronomy	djrajkhowa@gmail.com
2	Dr. L.K. Baishya	Senior Scientist	Agronomy	lkbicar@gmail.com
3	Ph. Romen Sharma	Scientist	Agricultural Extension	romen.agext@gmail.com
4	Dr. Rajesha G	Scientist	Plant Pathology	rajeshag337@gmail.com
5	Dr. Mahak Singh	Scientist	Animal Reproduction & Gynaecology	mahaksinghivri@gmail.com
	Dr. Azeze Seyie	Scientist	Spices, Plantation & Medicinal &	
6			Aromatic Plants	azezeseyie@yahoo.com
7	Jyotish Barman	Scientist	Fisheries Resource Management	jyotish5@gmail.com
8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com





## **Integrated Agromet Advisory Service Bulletin from 26<sup>th</sup> to 30<sup>th</sup> Jan'18** Kiphire District

### **Bulletin No:08/2018**

Weather forecast valid upto 30 <sup>th</sup> Jan 2018
■ Probability of no rain the coming week.
■ Max temp is likely to be $24^{\circ}$ C - $25^{\circ}$ C and the min temp $10^{\circ}$ C to $11^{\circ}$ C
Sky is likely to be clear the coming week
■ Relative Humidity is likely to range from 17% to 90%.
■ Wind speed may reach upto 2-4 kmph
Wind direction will be southeasterly

#### **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

## Field crops

Main Crops	Stage	Pest/	Agro-meteorological Advisories	
		Diseases		
TRC/WRC paddy	Storage		Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.	
Toria	Flowering stage	-	Keep the field free from weeds and daily scouting of the field should be done for aphid	
Rabi maize	Silking stage		Weeding and earthing up should be carried out	
Linseed/lentil	vegetative stage		Soil moisture conservation techniques like mulching with crop residue is recommended	
	Horticultural crop			

Khasi mandarin	Harvesting stage		Harvest the ripened fruits at the right time. Collect and discard the fallen fruits
Vegetables			Intercultural operations in vegetables are advised to remove the weeds.
Cauliflower, cabbage,		Black spot Cut worm	Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop

For Ginger and turmeric, field must be inspected daily for disease appearance While inspecting, the healthy plants/plots must be marked and kept for plantin in the next season. Marking has to be done properly otherwise when plan matures and gets dried up, it will be very difficult to find out the marked plots.    Livestock			from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further detoriation. The cabbage heads and cauliflower curds are invaded and become discoloured.  To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when	
Litchi  Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors  For Ginger and turmeric, field must be inspected daily for disease appearance While inspecting, the healthy plants/plots must be marked and kept for plantin in the next season. Marking has to be done properly otherwise when plan matures and gets dried up, it will be very difficult to find out the marked plots.  Livestock  Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrahagic Septicaemia, Anthrax  Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% 20% in the daily ration during winter season to meet the energy requirement of the animals  Avoid feeding of damp and foul smelling feed to all livestock and poultry  Poultry  Poultry  Poultry  Poultry  Provide good ventilation but prevent chill air from entering in  Seal all the cracks and crevices in the house  Side curtains can be used during severe winds and draft thus sealing the house from cold draft  Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird  Provide warm water to the birds  Piggery  Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms in noticed, immediately informed the nearby veterinary doctor  Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommende treatment.			moisture present in the soil	
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Fisheries — — — — — — — — — — — — — — — — — — —	Piggery	> Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.		
			Fisheries	



As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

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## **Integrated Agromet Advisory Service Bulletin from 26<sup>th</sup> to 30<sup>th</sup> Jan'18**Kohima District

## **Bulletin No:08/2018**

Weather summary of the preceding week	Weather forecast valid upto 30 <sup>th</sup> Jan 2018
■ No rain occurred the past week	■ Probability of no rain the coming week.
■ Maximum and minimum temperatures ranged 17	■ Max temp is likely to be 22 <sup>o</sup> C - 23 <sup>o</sup> C and the min temp 8 <sup>o</sup> C to 9 <sup>o</sup> C
<sup>0</sup> C to 18 <sup>0</sup> C and 4 <sup>0</sup> C to 6 <sup>0</sup> C, respectively.	Sky is likely to be clear the coming week
■ Relative humidity varied from 37% to 90%.	■ Relative Humidity is likely to range from 26% to 95%.
■ Wind speed ranged from 3 to 4 kmph	■ Wind speed may reach upto 2-3kmph
	Wind direction will be mostly southerly

Field crons

#### **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

Tiem crops			
<b>Main Crops</b>	Stage	Pest/	Agro-meteorological Advisories
		Diseases	
TRC/WRC paddy	Storage		Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.
Toria	Flowering stage	-	Keep the field free from weeds and daily scouting of the field should be done for aphid
Rabi maize	Silking stage		Weeding and earthing up should be carried out
Linseed/lentil	vegetative stage		Soil moisture conservation techniques like mulching with crop residue is recommended
			Horticultural crop
Khasi mandarin	Harvesting stage		Harvest the ripened fruits at the right time. Collect and discard the fallen fruits

Vegetables			Intercultural operations in vegetables are advised to remove the weeds.
Cauliflower, cabbage,		Black spot	Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further detoriation. The cabbage heads and cauliflower curds are invaded and become discoloured.  To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil
		Cut worm	Spray Neem seed kernel extract @500g/ha twice at 10 days interval.  Frequent Monitoring should be done and mechanically destroy the caterpillar
Litchi			Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors
Ginger / turmeric	Maturity stage		For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.

#### Livestock

- Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrahagic Septicaemia, Anthrax
- Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% 20% in the daily ration during winter season to meet the energy requirement of the animals
- Avoid feeding of damp and foul smelling feed to all livestock and poultry

#### **Poultry**

- Provide good ventilation but prevent chill air from entering in
- > Seal all the cracks and crevices in the house
- > Side curtains can be used during severe winds and draft thus sealing the house from cold draft
- > Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird
- Provide warm water to the birds

	Piggery	<ul> <li>Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms is noticed, immediately informed the nearby veterinary doctor</li> <li>Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.</li> </ul>
		Fisheries
भारके अनीत		As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

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# Integrated Agromet Advisory Service Bulletin from 26<sup>th</sup> to 30<sup>th</sup> Jan'18 Longleng District

### **Bulletin No:08/2018**

Weather summary of the preceding week	Weather forecast valid upto 30 <sup>th</sup> Jan 2018
■ No rain occurred the past week	Probability of no rain the coming week.
■ Maximum and minimum temperatures ranged 21 <sup>o</sup> C	■ Max temp is likely to be $24^{\circ}$ C - $25^{\circ}$ C and the min temp $10^{\circ}$ C to $11^{\circ}$ C
to 22 <sup>o</sup> C and 7 <sup>o</sup> C to 9 <sup>o</sup> C, respectively.	Sky is likely to be clear the coming week
■ Relative humidity varied from 60% to 95%.	■ Relative Humidity is likely to range from 30% to 85%.
■ Wind speed ranged from 1 to 2 kmph	■ Wind speed may reach upto 2- 3 kmph
	Wind direction will be mostly easterly

#### **General Recommendations**

Main

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source

Stage

- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

Pest/

F	ie	ld	cr	op	)

Agro-meteorological Advisories

Main	Stage	1 CSU	Agro-inctcorological Advisories
Crops		Diseases	
TRC/WRC	Storage		Dry the paddy grains properly and regularly before storing to reduce
paddy			storage insect pests and fungus. Paddy grains can be mixed with neem
			leaves at the time of storage to reduce storage pests.
Toria	Flowering stage	-	Keep the field free from weeds and daily scouting of the field should be
			done for aphid
Rabi maize	Silking stage		Weeding and earthing up should be carried out
Linseed/lentil	vegetative stage		Soil moisture conservation techniques like mulching with crop residue
			is recommended
		I	Horticultural crop
Khasi	Harvesting stage		Harvest the ripened fruits at the right time. Collect and discard the fallen
mandarin			fruits
Vegetables			Intercultural operations in vegetables are advised to remove the weeds.
Cauliflower,		Black spot	Prevailing weather may conducive for black spot disease in Cole Crops
cabbage,		Cut worm	and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow

		lesions develop from the leaf margins. They become black later. The veins		
		and veinlets become black. Systemic infection spreads to the root. The		
		vascular bundle in the stem becomes black followed by integration of		
		fleshy stalk. The attack of soft rot organisms causes further detoriation.		
		The cabbage heads and cauliflower curds are invaded and become		
		discoloured.		
		To manage the attack in leafy vegetables and Cole crops, Mancozeb @		
		2gm per liter of water may be sprayed. Intercultural operation should be		
		avoided when the plants are wet. Provision of drainage and free air		
		movement to dry the moisture present in the soil		
		Spray Neem seed kernel extract @500g/ha twice at 10 days interval.		
		Frequent Monitoring should be done and mechanically destroy the		
		caterpillar		
Litchi		Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors		
Cingon /	Maturity stage	For Ginger and turmeric, field must be inspected daily for disease		
Ginger / turmeric	Waturity stage	appearance. While inspecting, the healthy plants/plots must be marked		
		and kept for planting in the next season. Marking has to be done properly		
		otherwise when plant matures and gets dried up, it will be very difficult to		
		find out the marked plots.		
		Livestock		
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Poultry				
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Piggery		ir in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high		
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	symptoms is noticed, immediately informed the nearby veterinary doctor			
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	Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.
	Fisheries
нфзі-іц ІСА R	As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

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# Integrated Agromet Advisory Service Bulletin from 26<sup>th</sup> to 30<sup>th</sup> Jan'18 Mokokchung District

#### **Bulletin No:08/2018**

Weather summary of the preceding week	Weather forecast valid upto 30 <sup>th</sup> Jan 2018
■ No rain occurred the past week	■ Probability of no rain the coming week.
• Maximum and minimum temperatures ranged	■ Max temp is likely to be 24°C - 25°C and the min temp 10°C to 11°C
19 <sup>o</sup> C to 21 <sup>o</sup> C and 6 <sup>o</sup> C to 8 <sup>o</sup> C, respectively.	■ Sky is likely to be clear the coming week
Relative humidity varied from 42% to 90%.	■ Relative Humidity is likely to range from 31% to 87%.
<ul><li>Wind speed ranged from 3 to 5 kmph</li></ul>	■ Wind speed may reach upto 1- 2kmph
-	Wind direction will be easterly

#### **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

#### Field crops Main **Agro-meteorological Advisories** Stage Pest/ **Diseases Crops** TRC/WRC Storage Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the paddy time of storage to reduce storage pests. Keep the field free from weeds and daily scouting of the field should be done Flowering stage Toria for aphid Weeding and earthing up should be carried out Rabi maize Silking stage Soil moisture conservation techniques like mulching with crop residue is Linseed/lenti vegetative stage recommended Horticultural crop Harvesting stage Harvest the ripened fruits at the right time. Collect and discard the fallen fruits Khasi mandarin *Intercultural operations in vegetables are advised to remove the weeds.* **Vegetables**

Cauliflower, cabbage,		Black spot	Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further detoriation. The cabbage heads and cauliflower curds are invaded and become discoloured.  To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil
		Cut worm	Spray Neem seed kernel extract @500g/ha twice at 10 days interval.  Frequent Monitoring should be done and mechanically destroy the caterpillar
Litchi			Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors
Ginger / turmeric	Maturity stage		For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.
• Anima 20% in	ls should be given minth the daily ration durin	neral mixture a g winter season	Livestock  nst FMD, Brucellosis, Haemorrahagic Septicaemia, Anthrax long with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - a to meet the energy requirement of the animals ed to all livestock and poultry
Poultry	➤ Provide good ventilation but prevent chill air from entering in		
	<ul> <li>Seal all the cracks and crevices in the house</li> <li>Side curtains can be used during severe winds and draft thus sealing the house from cold draft</li> <li>Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird</li> <li>Provide warm water to the birds</li> </ul>		
Piggery	<ul> <li>Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms is noticed, immediately informed the nearby veterinary doctor</li> <li>Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended</li> </ul>		



## **Fisheries**

As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes.

Sl.no	Name	Designation	Department	
1	Dr.D.J. Rajkhowa	Principle Scientist	Agronomy	djrajkhowa@gmail.com
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4	Dr. Rajesha G	Scientist	Plant Pathology	rajeshag337@gmail.com
5	Dr. Mahak Singh	Scientist	Animal Reproduction & Gynaecology	mahaksinghivri@gmail.com
	Dr. Azeze Seyie	Scientist	Spices, Plantation & Medicinal &	
6			Aromatic Plants	azezeseyie@yahoo.com
7	Jyotish Barman	Scientist	Fisheries Resource Management	jyotish5@gmail.com
8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com



## Integrated Agromet Advisory Service Bulletin from 26<sup>th</sup> to 30<sup>th</sup> Jan'18 Mon District

## **Bulletin No:08/2018**

Weather summary of the preceding week	Weather forecast valid upto 30 <sup>th</sup> Jan 2018
■ No rain occurred the past week	■ Probability of no rain the coming week.
■ Maximum and minimum temperatures ranged	■ Max temp is likely to be $24^{\circ}$ C - $25^{\circ}$ C and the min temp $10^{\circ}$ C to $11^{\circ}$ C
$18^{0}$ C to $19^{0}$ C and $6^{0}$ C to $7^{0}$ C, respectively.	• Sky is likely to be clear the coming week
■ Relative humidity varied from 36% to 85%	■ Relative Humidity is likely to range from 31% to 90%.
■ Wind speed ranged from 5 to 6 kmph	■ Wind speed may reach upto 3- 5 kmph
	Wind direction will be southeasterly

#### **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

## Field crops

Main	Stage	Pest/	Agro-meteorological Advisories
Crops		Diseases	
TRC/WRC	Storage		Dry the paddy grains properly and regularly before storing to reduce
paddy			storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.
Toria	Maturing stage	-	Soil moisture conservation techniques like mulching with crop residue is recommended
			Keep the field free from weeds and daily scouting of the field should be done for aphid.
Rabi maize	Maturing stage		Provide mulching to conserve moisture
Linseed/lentil	Maturing stage		Soil moisture conservation techniques like mulching with crop residue is recommended
Horticultural crop		Horticultural crop	
Khasi mandarin	Harvesting stage		Harvest the ripened fruits at the right time. Collect and discard the fallen fruits

Vegetables		Intercultural operations in vegetables are advised to remove the weeds.		
Cauliflower, cabbage,	Black spot	Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further detoriation. The cabbage heads and cauliflower curds are invaded and become discoloured.  To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil		
	Cut worm	Spray Neem seed kernel extract @500g/ha twice at 10 days interval.  Frequent Monitoring should be done and mechanically destroy the caterpillar		
Litchi		Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors		
Ginger / turmeric	Maturity stage	For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.		
<ul> <li>Livestock</li> <li>Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrahagic Septicaemia, Anthrax</li> <li>Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals</li> </ul>				
Poultry	<ul> <li>Provide good ventilation but prevent chill air from entering in</li> <li>Seal all the cracks and crevices in the house</li> <li>Side curtains can be used during severe winds and draft thus sealing the house from cold draft</li> <li>Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird</li> <li>Provide warm water to the birds</li> </ul>			
Piggery	Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms is noticed, immediately informed the nearby veterinary doctor			

	Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.
	Fisheries
нфзиц ICAR	As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes.

Sl.no	Name	Designation	Department	
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4 Dr. Rajesha G Scientist		Scientist	Plant Pathology	rajeshag337@gmail.com
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6			Aromatic Plants	azezeseyie@yahoo.com
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8 Aabon W Yanthan Scientist		Scientist	Vegetable Science	aabon.iari@gmail.com



## Integrated Agromet Advisory Service Bulletin from 26<sup>th</sup> to 30<sup>th</sup> Jan'18 Peren District

#### **Bulletin No:08/2018**

Weather summary of the preceding week	Weather forecast valid upto 30 <sup>th</sup> Jan 2018
■ No rain occurred the past week	■ Probability of no rain the coming week.
■ Maximum and minimum temperatures ranged	■ Max temp is likely to be $24^{\circ}$ C - $25^{\circ}$ C and the min temp $9^{\circ}$ C to $10^{\circ}$ C
$20^{\circ}$ C to $21^{\circ}$ C and $5^{\circ}$ C to $7^{\circ}$ C, respectively.	Sky is likely to be clear the coming week
■ Relative humidity varied from 39% to 90%.	■ Relative Humidity is likely to range from 27% to 85%.
■ Wind speed ranged from 3 to 4 kmph	■ Wind speed may reach upto 2-3 kmph
	Wind direction will be southeasterly

#### **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

### Field crops

Main Crops	Stage	Pest/	Agro-meteorological Advisories
		Diseases	
TRC/WRC paddy	Storage		Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.
Toria	Flowering stage - Keep the field free from weeds and daily scouting of the field for aphid		Keep the field free from weeds and daily scouting of the field should be done for aphid
Rabi maize	Silking stage		Weeding and earthing up should be carried out
Linseed/lentil	vegetative stage		Soil moisture conservation techniques like mulching with crop residue is recommended
Horticultural cro			Horticultural crop
Khasi	Harvesting		Harvest the ripened fruits at the right time. Collect and discard the fallen
mandarin	stage		fruits

Vegetables			Intercultural operations in vegetables are advised to remove the weeds.
Cauliflower, cabbage,		Black spot	Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further detoriation. The cabbage heads and cauliflower curds are invaded and become discoloured.  To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil
		Cut worm	Spray Neem seed kernel extract @500g/ha twice at 10 days interval.  Frequent Monitoring should be done and mechanically destroy the caterpillar
Litchi			Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors
Ginger / turmeric	Maturity stage		For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.
<ul> <li>Livestock</li> <li>Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrahagic Septicaemia, Anthrax</li> <li>Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ -20% in the daily ration during winter season to meet the energy requirement of the animals</li> <li>Avoid feeding of damp and foul smelling feed to all livestock and poultry</li> </ul>			Livestock ainst FMD, Brucellosis, Haemorrahagic Septicaemia, Anthrax along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% ason to meet the energy requirement of the animals
Poultry	<ul> <li>Provide good ventilation but prevent chill air from entering in</li> <li>Seal all the cracks and crevices in the house</li> </ul>		

> Side curtains can be used during severe winds and draft thus sealing the house from cold draft

of the bird

> Provide warm water to the birds

> Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need



Piggery	<ul> <li>Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms is noticed, immediately informed the nearby veterinary doctor</li> <li>Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.</li> </ul>
	Fisheries
	As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish.  Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

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## Integrated Agromet Advisory Service Bulletin from 26<sup>th</sup> to 30<sup>th</sup> Jan'18 Phek District

## **Bulletin No:08/2018**

Weather summary of the preceding week	Weather forecast valid upto 30 <sup>th</sup> Jan 2018
	■ Probability of no rain the coming week.
	■ Max temp is likely to be 24 <sup>o</sup> C - 25 <sup>o</sup> C and the min temp 8 <sup>o</sup> C to 9 <sup>o</sup> C
ranged $16^{\circ}$ C to $17^{\circ}$ C and $4^{\circ}$ C to $6^{\circ}$ C,	Sky is likely to be clear the coming week
respectively.	■ Relative Humidity is likely to range from 27% to 96%.
■ Relative humidity varied from 30% to 90%.	■ Wind speed may reach upto 1-2 kmph
■ Wind speed ranged from 1 to 2 kmph	Wind direction will be mostly southeasterly

#### **General Recommendations**

mandarin

stage

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

	Field crops				
Main	Main Stage Pest/		Agro-meteorological Advisories		
Crops		Diseases			
TRC/WRC paddy	Storage		Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.		
Toria	Flowering stage - Keep the field free from weeds and daily scouting of the field should aphid		Keep the field free from weeds and daily scouting of the field should be done for aphid		
Rabi maize	Silking stage		Weeding and earthing up should be carried out		
Linseed/lent il	vegetative stage		Soil moisture conservation techniques like mulching with crop residue is recommended		
Horticultural crop					
Khasi	Harvesting		Harvest the ripened fruits at the right time. Collect and discard the fallen fruits		

Vegetables			Intercultural operations in vegetables are advised to remove the weeds.
leafy vegetables. On leaves 'V' shaped chlorotic to yellow leaf margins. They become black later. The veins and verification spreads to the root. The vascular bundled black followed by integration of fleshy stalk. The attack of soft further detoriation. The cabbage heads and cauliflower of become discoloured.  To manage the attack in leafy vegetables and Cole crops, Markof water may be sprayed. Intercultural operation should be attack in leafy.		To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in	
		Cut worm	Spray Neem seed kernel extract @500g/ha twice at 10 days interval.  Frequent Monitoring should be done and mechanically destroy the caterpillar
Litchi			Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors
Ginger / turmeric	Maturity stage		For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.
			gets dried up, it will be very difficult to find out the marked plots.  Livestock

- Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrahagic Septicaemia, Anthrax
- Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% 20% in the daily ration during winter season to meet the energy requirement of the animals
- Avoid feeding of damp and foul smelling feed to all livestock and poultry

#### **Poultry**

- > Provide good ventilation but prevent chill air from entering in
- > Seal all the cracks and crevices in the house
- > Side curtains can be used during severe winds and draft thus sealing the house from cold draft
- > Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird

		> Provide warm water to the birds
	Piggery	<ul> <li>Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms is noticed, immediately informed the nearby veterinary doctor</li> <li>Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.</li> </ul>
		Fisheries
нцэзгд ІСАК		As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

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## Integrated Agromet Advisory Service Bulletin from 26<sup>th</sup> to 30<sup>th</sup> Jan'18 Tuensang District

#### **Bulletin No:08/2018**

Duite 110100/2010	
Weather summary of the preceding week	Weather forecast valid upto 30 <sup>th</sup> Jan 2018
■ No rain occurred the past week	■ Probability of no rain the coming week.
<ul><li>Maximum and minimum temperatures ranged</li></ul>	■ Max temp is likely to be $20^{\circ}$ C - $21^{\circ}$ C and the min temp $6^{\circ}$ C to $7^{\circ}$ C
$13^{0}$ C to $16^{0}$ C and $4^{0}$ C to $6^{0}$ C, respectively.	Sky is likely to be clear the coming week
■ Relative humidity varied from 30% to 95%.	■ Relative Humidity is likely to range from 17% to 85%.
<ul> <li>Wind speed ranged from 3 to 4 kmph</li> </ul>	■ Wind speed may reach upto 2-3 kmph
	■ Wind direction will be mostly southerly

#### **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

#### Field crops Main Pest/ Agro-meteorological Advisories Stage **Diseases Crops** TRC/WRC Dry the paddy grains properly and regularly before storing to reduce Storage storage insect pests and fungus. Paddy grains can be mixed with neem paddy leaves at the time of storage to reduce storage pests. *Keep the field free from weeds and daily scouting of the field should be done* Flowering stage **Toria** for aphid Weeding and earthing up should be carried out Rabi maize Silking stage Linseed/lenti vegetative stage Soil moisture conservation techniques like mulching with crop residue is recommended Horticultural crop Harvest the ripened fruits at the right time. Collect and discard the fallen Harvesting stage Khasi mandarin fruits *Intercultural operations in vegetables are advised to remove the weeds.* **Vegetables**

Caulifle	ower,	Black spot	Prevailing weather may conducive for black spot disease in Cole Crops and	
cabbag	e,		other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions	
			develop from the leaf margins. They become black later. The veins and	
			veinlets become black. Systemic infection spreads to the root. The vascular	
			bundle in the stem becomes black followed by integration of fleshy stalk. The	
			attack of soft rot organisms causes further detoriation. The cabbage heads	
			and cauliflower curds are invaded and become discoloured.	
			To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm	
			per liter of water may be sprayed. Intercultural operation should be avoided	
			when the plants are wet. Provision of drainage and free air movement to dry	
			the moisture present in the soil	
		Cut worm	Spray Neem seed kernel extract @500g/ha twice at 10 days interval.	
			Frequent Monitoring should be done and mechanically destroy the	
			caterpillar	
Litchi			Mulch the tree basin, protect young litchi plants from cold and suppress	
Cinan	/ Maturity stage		new flush by application of growth inhibitors	
Ginger turmeri	•		For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and	
turnicri			kept for planting in the next season. Marking has to be done properly	
			otherwise when plant matures and gets dried up, it will be very difficult to	
			find out the marked plots.	
	Livestock			
	Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrahagic Septicaemia, Anthrax			
			e along with salt regularly and wheat grains, jaggery etc. may be provided @ er season to meet the energy requirement of the animals	
	<del>-</del>		feed to all livestock and poultry	
Poultry		<ul> <li>Provide good ventilation but prevent chill air from entering in</li> </ul>		
	> Seal all the crac	> Seal all the cracks and crevices in the house		
	➤ Side curtains ca	➤ Side curtains can be used during severe winds and draft thus sealing the house from cold draft		
		> Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of		
	the bird			
		> Provide warm water to the birds		
Piggery	·			
			ons, constipation followed by diarrhea and vomiting, less appetite. Once the	
	• •		ately informed the nearby veterinary doctor	
	Sick or injure	> Sick or injured animals should be attended to immediately, preferably move to a warm comfortable		

	environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.
	Fisheries
Higp st-fig ICAR	As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

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## Integrated Agromet Advisory Service Bulletin from 26<sup>th</sup> to 30<sup>th</sup> Jan'18 Wokha District

## **Bulletin No:08/2018**

Weather summary of the preceding week	Weather forecast valid upto 30 <sup>th</sup> Jan 2018
■ No rain occurred the past week	Probability of no rain the coming week.
■ Maximum and minimum temperatures ranged	■ Max temp is likely to be $24^{\circ}$ C - $25^{\circ}$ C and the min temp $9^{\circ}$ C to $10^{\circ}$ C
$20^{0}$ C to $21^{0}$ C and $6^{0}$ C to $7^{0}$ C, respectively.	Sky is likely to be clear the coming week
■ Relative humidity varied from 43% to 90%.	■ Relative Humidity is likely to range from 27% to 92%.
■ Wind speed ranged from 4 to 5 kmph	■ Wind speed may reach upto 3-4 kmph
	Wind direction will be southeasterly

#### **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

#### Field crops

Main	Stage	Pest/	Agro-meteorological Advisories
Crops		Diseases	
TRC/WRC paddy	Storage		Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.
Toria	Flowering stage	-	Keep the field free from weeds and daily scouting of the field should be done for aphid
Rabi maize	Silking stage		Weeding and earthing up should be carried out
Linseed/lentil	vegetative stage		Soil moisture conservation techniques like mulching with crop residue is recommended
			Horticultural crop
Khasi mandarin	Harvesting stage		Harvest the ripened fruits at the right time. Collect and discard the fallen fruits
Vegetables			Intercultural operations in vegetables are advised to remove the weeds.

	Black spot	Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further detoriation. The cabbage heads and cauliflower curds are invaded and become discoloured.  To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil  Spray Neem seed kernel extract @500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar
		Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors
Maturity stage		For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.
	Maturity stage	Cut worm

- Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrahagic Septicaemia, Anthrax
- Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals
- Avoid feeding of damp and foul smelling feed to all livestock and poultry

#### **Poultry**

- Provide good ventilation but prevent chill air from entering in
- > Seal all the cracks and crevices in the house
- > Side curtains can be used during severe winds and draft thus sealing the house from cold draft
- > Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird
- > Provide warm water to the birds



	Piggery	<ul> <li>Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms is noticed, immediately informed the nearby veterinary doctor</li> <li>Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.</li> </ul>
ніфзіні ІСАК		Fisheries — — — — — — — — — — — — — — — — — — —
		As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

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## Integrated Agromet Advisory Service Bulletin from 26<sup>th</sup> to 30<sup>th</sup> Jan'18 Zunheboto District

#### **Bulletin No:08/2018**

Weather summary of the preceding week	Weather forecast valid upto 30 <sup>th</sup> Jan 2018
■ No rain occurred the past week	■ Probability of no rain the coming week.
■ Maximum and minimum temperatures ranged	■ Max temp is likely to be 24 <sup>o</sup> C - 25 <sup>o</sup> C and the min temp 8 <sup>o</sup> C to 9 <sup>o</sup> C
16 <sup>o</sup> C to 18 <sup>o</sup> C and 3 <sup>o</sup> C to 5 <sup>o</sup> C, respectively.	Sky is likely to be clear the coming week
Relative humidity varied from 37% to 85%.	■ Relative Humidity is likely to range from 32% to 95%.
<ul><li>Wind speed ranged from 4 to 5 kmph</li></ul>	■ Wind speed may reach upto 1-2 kmph
	Wind direction will be mostly southeasterly

#### **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

## Field crops

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
TRC/WRC paddy	Storage		Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.
Toria	Flowering stage	-	Keep the field free from weeds and daily scouting of the field should be done for aphid
Rabi maize	Silking stage		Weeding and earthing up should be carried out
Linseed/lent il	vegetative stage		Soil moisture conservation techniques like mulching with crop residue is recommended
			Horticultural crop
Khasi mandarin	Harvesting stage		Harvest the ripened fruits at the right time. Collect and discard the fallen fruits

Vegetables			Intercultural operations in vegetables are advised to remove the weeds.		
Cauliflower, cabbage,		Black spot	Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further detoriation. The cabbage heads and cauliflower curds are invaded and become discoloured.  To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil		
		Cut worm	Spray Neem seed kernel extract @500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar		
Litchi			Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors		
Ginger / turmeric	Maturity stage		For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.		
_	Livestock				
• Anima 10% -	als should be given 20% in the daily rat	mineral mixture ion during wint	ainst FMD, Brucellosis, Haemorrahagic Septicaemia, Anthrax e along with salt regularly and wheat grains, jaggery etc. may be provided @ er season to meet the energy requirement of the animals feed to all livestock and poultry		
Poultry	➤ Provide good ventilation but prevent chill air from entering in				
	<ul> <li>Seal all the cracks and crevices in the house</li> <li>Side curtains can be used during severe winds and draft thus sealing the house from cold draft</li> <li>Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird</li> <li>Provide warm water to the birds</li> </ul>				
Piggery	Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the				

	symptoms is noticed, immediately informed the nearby veterinary doctor  Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.
	Fisheries
भाकुअनुष	As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

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