



# Integrated Agromet Advisory Service Bulletin from 31<sup>st</sup> Jan to 4<sup>th</sup> Feb'18 Dimapur District

## **Bulletin No:09/2018**

Weather summary of the preceding week	Weather forecast valid upto 4 <sup>th</sup> Feb 2018
■ No rain occurred the past week	■ Probability of no rain the coming week.
■ Maximum and minimum temperatures ranged 24 <sup>0</sup> C to	■ Max temp is likely to be 24 <sup>o</sup> C - 25 <sup>o</sup> C and the min temp 9 <sup>o</sup> C to 11 <sup>o</sup> C
25°C and 12°C to 13°C, respectively.	■ Sky is likely to be clear the coming week
Relative humidity varied from 22% to 88%.	■ <b>Relative Humidity</b> is likely to range from 26% to 90%.
■ Wind speed ranged from 2 to 3 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	Tield c	rops
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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	Harvesting		Intercultural operations in vegetables are advised to remove the weeds.
Cauliflower, cabbage,	Maturing stage	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		Bark eating caterpillar	The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.	
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	
<ul> <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>Animals should be given lukewarm feed and water to drink</li> <li>To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery</li> </ul>				
Poultry	<ul> <li>Vaccination and deworming must be carried out</li> <li>Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters.</li> <li>Sanitary and hygienic practice must be followed at all time.</li> </ul>			
Piggery	<ul> <li>Put up windbreaks and protection from excess cold</li> <li>Look out for skin conditions and treat if necessary</li> <li>Wash the sties with potassium permanganate solution a week atleast</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
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 31<sup>st</sup> Jan to 4<sup>th</sup> Feb'18 Kiphire District

## **Bulletin No:09/2018**

Weather summary of the preceding week	Weather forecast valid upto 4 <sup>th</sup> Feb 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 25 <sup>o</sup> C - 27 <sup>o</sup> C and the min temp 7 <sup>o</sup> C to 9 <sup>o</sup> C
22°C to 23°C and 7°C to 9°C, respectively.	■ Sky is likely to be clear the coming week
■ Relative humidity varied from 26% to 88%.	■ Relative Humidity 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 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

<b>Main Crops</b>	Stage	Pest/	Agro-meteorological Advisories
		Diseases	
TRC/WRC	Storage		Dry the paddy grains properly and regularly before storing to reduce storage
paddy			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	Harvesting stage		Harvest the ripened fruits at the right time. Collect and discard the fallen fruits
mandarin			
Vegetables	Harvesting		Intercultural operations in vegetables are advised to remove the weeds.
Cauliflower,		Black spot	Prevailing weather may conducive for black spot disease in Cole Crops and
cabbage,	Maturing stage	Cut worm	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		Bark eating	The caterpillar bore inside the trunk or main stem. During night they came out		
		caterpillar	and feed on the bark of the stem. The stem becomes weak and ultimately fall on		
			the ground.		
Ginger /	Maturity stage		For Ginger and turmeric, field must be inspected daily for disease appearance.		
turmeric			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 pe	eriodic vaccination of	animals agains	st FMD, Brucellosis, Haemorrahagic Septicaemia, Anthrax		
			ong with salt regularly and wheat grains, jaggery etc. may be provided @ 10% -		
	•		to meet the energy requirement of the animals		
	should be given lukey				
Poultry		<ul> <li>in the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery</li> <li>Vaccination and deworming must be carried out</li> </ul>			
1 outil y					
	• Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters.				
Diagon.	<ul> <li>Sanitary and hygienic practice must be followed at all time.</li> <li>Put up windbreaks and protection from excess cold</li> </ul>				
Piggery	-	•			
			ns and treat if necessary		
	• Wash the st	ies with potass	sium permanganate solution a week atleast		
	Fisheries Fisher				



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 31<sup>st</sup> Jan to 4<sup>th</sup> Feb'18 Kohima District

## **Bulletin No:09/2018**

Weather summary of the preceding week	Weather forecast valid upto 4 <sup>th</sup> Feb 2018
■ No rain occurred the past week	■ Probability of no rain the coming week.
<ul><li>Maximum and minimum temperatures ranged 23</li></ul>	■ Max temp is likely to be $24^{\circ}$ C - $26^{\circ}$ C and the min temp $5^{\circ}$ C to $6^{\circ}$ C
<sup>0</sup> C to 24 <sup>0</sup> C and 9 <sup>0</sup> C to 10 <sup>0</sup> C, respectively.	Sky is likely to be clear the coming week
■ Relative humidity varied from 25% to 95%.	■ <b>Relative Humidity</b> is likely to range from 28% to 95%.
■ Wind speed ranged from 3 to 4 kmph	■ Wind speed may reach upto 2-3kmph
	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

Main Crops	Stage	Pest/	Agro-meteorological Advisories		
		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		
·	G111 1				
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	Harvesting stage		Harvest the ripened fruits at the right time. Collect and discard the fallen		
mandarin			fruits		

Field crops

Vegetables	Harvesting		Intercultural operations in vegetables are advised to remove the weeds.
Cauliflower, cabbage,	Maturing stage	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		Bark eating caterpillar	The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.
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
- Animals should be given lukewarm feed and water to drink
- To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery

#### **Poultry**

- Vaccination and deworming must be carried out
- Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters.
- Sanitary and hygienic practice must be followed at all time.

	Piggery	<ul> <li>Put up windbreaks and protection from excess cold</li> <li>Look out for skin conditions and treat if necessary</li> </ul>
		Wash the sties with potassium permanganate solution a week atleast
		Fisheries Fisheries Fisheries
भाकि 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 31<sup>st</sup> Jan to 4<sup>th</sup> Feb'18 Longleng District

### **Bulletin No:09/2018**

Weather summary of the preceding week	Weather forecast valid upto 4 <sup>th</sup> Feb 2018
■ No rain occurred the past week	Probability of no rain the coming week.
■ Maximum and minimum temperatures ranged 24 <sup>o</sup> C	■ Max temp is likely to be $25^{\circ}$ C - $27^{\circ}$ C and the min temp $7^{\circ}$ C to $9^{\circ}$ C
to 25°C and 10°C to 11°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 30% to 95%.
■ Wind speed ranged from 1 to 2 kmph	■ Wind speed may reach upto 2- 3 kmph
	Wind direction will be mostly southeasterly

#### **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

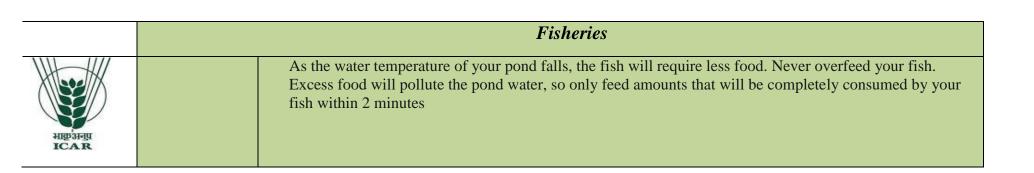
Pest/

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Agro-meteorological Advisories

Main	Blage	1 CSU	Agro-incicorological 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
		H	Iorticultural crop
Khasi	Harvesting stage		Harvest the ripened fruits at the right time. Collect and discard the fallen
mandarin			fruits
Vegetables	Harvesting		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,	Maturing stage	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	eat cater		The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.	
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> <li>Animals should be given lukewarm feed and water to drink</li> <li>To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery</li> </ul>				
Poultry	<ul> <li>Vaccination and deworming must be carried out</li> <li>Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters.</li> <li>Sanitary and hygienic practice must be followed at all time.</li> </ul>			
Piggery	<ul> <li>Put up windbreaks and protection from excess cold</li> <li>Look out for skin conditions and treat if necessary</li> <li>Wash the sties with potassium permanganate solution a week atleast</li> </ul>			



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# Integrated Agromet Advisory Service Bulletin from 31<sup>st</sup> Jan to 4<sup>th</sup> Feb'18 Mokokchung District

### **Bulletin No:09/2018**

Weather summary of the preceding week	Weather forecast valid upto 4 <sup>th</sup> Feb 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 $7^{\circ}$ C to $9^{\circ}$ C
24 <sup>o</sup> C to 25 <sup>o</sup> C and 10 <sup>o</sup> C to 11 <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 32% to 95%.
■ Wind speed ranged from 1 to 2 kmph	■ Wind speed may reach upto 1- 2kmph
-	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/ 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	ı	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	Harvesting		Intercultural operations in vegetables are advised to remove the weeds.		

Cauliflower, cabbage,	Maturing stage	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 stenderomes black followed by integration of fleshy stalk. The attack of soft roorganisms causes further detoriation. The cabbage heads and cauliflowed curds are invaded and become discoloured.  To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm peliter of water may be sprayed. Intercultural operation should be avoided whee 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.			
		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		Bark eating caterpillar	The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.		
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>Animal 20% in</li><li>Animal</li><li>To mai</li></ul>	<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>Animals should be given lukewarm feed and water to drink</li> <li>To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery</li> <li>Poultry</li> <li>Vaccination and deworming must be carried out</li> </ul>				
Poultry	<ul> <li>Vaccination and deworming must be carried out</li> <li>Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters.</li> <li>Sanitary and hygienic practice must be followed at all time.</li> </ul>				
Piggery	<ul> <li>Put up windbreaks and protection from excess cold</li> <li>Look out for skin conditions and treat if necessary</li> <li>Wash the sties with potassium permanganate solution a week atleast</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 31<sup>st</sup> Jan to 4<sup>th</sup> Feb'18 Mon District

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Weather summary of the preceding week	Weather forecast valid upto 4 <sup>th</sup> Feb 2018
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■ Wind speed ranged from 2 to 4 kmph	■ Wind speed may reach upto 4- 6 kmph
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#### **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	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	Harvesting		Intercultural operations in vegetables are advised to remove the weeds.
cabbage,  Maturing stage  other leafy vegetables. On develop from the leaf man veinlets become black. Syst bundle in the stem becomes attack of soft rot organism and cauliflower curds are in To manage the attack in leaf per liter of water may be sp when the plants are wet. Pr		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		Bark eating caterpillar	The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.
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> <li>Animals should be given lukewarm feed and water to drink</li> <li>To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery</li> </ul>			
<ul> <li>Poultry</li> <li>Vaccination and deworming must be carried out</li> <li>Disinfection of farm premises must be carried out before bringing in new bird, along with equipment utensils and litters.</li> </ul>			

Poultry	Vaccination and deworming must be carried out			
	• Disinfection of farm premises must be carried out before bringing in new bird, along with equipments			
	utensils and litters.			
	Sanitary and hygienic practice must be followed at all time.			
Piggery	Put up windbreaks and protection from excess cold			
	Look out for skin conditions and treat if necessary			
	Wash the sties with potassium permanganate solution a week atleast			



## **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	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 31<sup>st</sup> Jan to 4<sup>th</sup> Feb'18 Peren District

### Bulletin No:09/2018

Weather summary of the preceding week	Weather forecast valid upto 4 <sup>th</sup> Feb 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 - 26 <sup>o</sup> C and the min temp 7 <sup>o</sup> C to 8 <sup>o</sup> C
24 <sup>0</sup> C to 25 <sup>0</sup> C and 9 <sup>0</sup> C to 10 <sup>0</sup> C, respectively.	• Sky is likely to be clear the coming week
Relative humidity varied from 27% to 93%.	■ Relative Humidity is likely to range from 30% to 95%.
■ Wind speed ranged from 2 to 3 kmph	■ Wind speed may reach upto 2-3 kmph
	Wind direction will be southeasterly

#### **General Recommendations**

Main Crons

- 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

## Field crops

Agra-meteorological Advisories

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		Horticultural crop	
Khasi	Harvesting		Harvest the ripened fruits at the right time. Collect and discard the fallen
mandarin	stage		fruits

Vegetables	Harvesting		Intercultural operations in vegetables are advised to remove the weeds.
Cauliflower, cabbage,	Maturing stage	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		Bark eating caterpillar	The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.
turmeric appearance. While insp kept for planting in t otherwise when plant m			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>Animals s</li><li>- 20% in t</li><li>Animals s</li></ul>	<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>Animals should be given lukewarm feed and water to drink</li> <li>To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery</li> <li>Poultry</li> <li>Vaccination and deworming must be carried out</li> <li>Disinfection of farm premises must be carried out before bringing in new bird, along with equipment utensils and litters.</li> </ul>		
Piggery	Sanitary and hygienic practice must be followed at all time.		
1 iggely	<ul> <li>Put up windbreaks and protection from excess cold</li> <li>Look out for skin conditions and treat if necessary</li> </ul>		

Wash the sties with potassium permanganate solution a week atleast
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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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
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8	8 Aabon W Yanthan Scientist		Vegetable Science	aabon.iari@gmail.com



# **Integrated Agromet Advisory Service Bulletin from 31<sup>st</sup> Jan to 4<sup>th</sup> Feb'18**Phek District

## **Bulletin No:09/2018**

<b>Dancelli</b> 110.00/2010	
Weather summary of the preceding week	Weather forecast valid upto 4 <sup>th</sup> Feb 2018
	■ Probability of no rain the coming week.
	■ Max temp is likely to be $25^{\circ}$ C - $26^{\circ}$ C and the min temp $6^{\circ}$ C to $8^{\circ}$ C
ranged $24^{\circ}$ C to $25^{\circ}$ C and $8^{\circ}$ C to $9^{\circ}$ C,	
respectively.	■ Relative Humidity is likely to range from 28% to 93%.
■ Relative humidity varied from 27% 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**

- 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 Adviso		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/lent il	vegetative stage		Soil moisture conservation techniques like mulching with crop residue recommended			
	Horticultural crop					
Khasi mandarin	Harvesting stage		Harvest the ripened fruits at the right time. Collect and discard the fallen fruits			

Harvesting		Intercultural operations in vegetables are advised to remove the weeds.
Cauliflower, cabbage, Maturing stage Blace		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
	Bark eating caterpillar	The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.
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.
	Maturing stage	Maturing stage  Black spot  Cut worm  Bark eating caterpillar

### 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
- Animals should be given lukewarm feed and water to drink
- To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery

### **Poultry**

- Vaccination and deworming must be carried out
- Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters.
- Sanitary and hygienic practice must be followed at all time.

	<ul> <li>Piggery</li> <li>Put up windbreaks and protection from excess cold</li> <li>Look out for skin conditions and treat if necessary</li> <li>Wash the sties with potassium permanganate solution a week atleast</li> </ul>			
	Fisheries			
нарзі-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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8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com





# Integrated Agromet Advisory Service Bulletin from 31<sup>st</sup> Jan to 4<sup>th</sup> Feb'18 Tuensang District

#### Bulletin No:09/2018

Duitelli 110.07/2010	
Weather summary of the preceding week	Weather forecast valid upto 4 <sup>th</sup> Feb 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 22 <sup>o</sup> C - 24 <sup>o</sup> C and the min temp 4 <sup>o</sup> C to 6 <sup>o</sup> C
20°C to 21°C and 6°C to 7°C, respectively.	Sky is likely to be clear the coming week
■ Relative humidity varied from 25% to 95%.	■ Relative Humidity is likely to range from 26% to 94%.
<ul><li>Wind speed ranged from 2 to 3 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 Rabi maize Weeding and earthing up should be carried out 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.* Harvesting **Vegetables**

Cauliflower,		Black spot	Prevailing weather may conducive for black spot disease in Cole Crops and	
cabbage,	Maturing stage	ge other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesio		
			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		Bark eating	The caterpillar bore inside the trunk or main stem. During night they came	
		caterpillar	out and feed on the bark of the stem. The stem becomes weak and ultimately	
Ginger /	Maturity stage		fall on the ground.  For Ginger and turmeric, field must be inspected daily for disease	
turmeric	Wiaturity 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	
	*		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	
	als should be given lu			
			als in milk, they should be fed with a mixture of oil cakes and jaggery	
Poultry	Vaccination and deworming must be carried out			
	Disinfection of farm premises must be carried out before bringing in new bird, along with equipments,			
	utensils and	utensils and litters.		
	Sanitary and	l hygienic prac	practice must be followed at all time.	
Piggery			tection from excess cold	
	<ul> <li>Look out for skin conditions and treat if necessary</li> </ul>			
the state of the s	- Look out 10.	i skili collaitioi	is and treat if necessary	



## 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 31<sup>st</sup> Jan to 4<sup>th</sup> Feb'18 Wokha District

## **Bulletin No:09/2018**

Weather summary of the preceding week	Weather forecast valid upto 4 <sup>th</sup> Feb 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 $7^{\circ}$ C to $9^{\circ}$ C
$24^{\circ}$ C to $25^{\circ}$ C and $9^{\circ}$ C to $10^{\circ}$ C, respectively.	Sky is likely to be clear the coming week
■ Relative humidity varied from 27% to 90%.	■ Relative Humidity is likely to range from 36% to 92%.
■ Wind speed ranged from 3 to 4 kmph	■ Wind speed may reach upto 4- 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 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		Horticultural crop	
Khasi mandarin	Harvesting stage		Harvest the ripened fruits at the right time. Collect and discard the fallen fruits
Vegetables	Harvesting		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,	Maturing stage		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
			C	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		Bark eating	The caterpillar bore inside the trunk or main stem. During night they
			caterpillar	came out and feed on the bark of the stem. The stem becomes weak and
				ultimately fall on the ground.
	Ginger /	Maturity stage		For Ginger and turmeric, field must be inspected daily for disease
	turmeric			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.
	- Enguro	pariodia vaccination of	onimals assim	Livestock st FMD, Brucellosis, Haemorrahagic Septicaemia, Anthrax
				ong with salt regularly and wheat grains, jaggery etc. may be provided @
			on during winter season to meet the energy requirement of the animals	
	Animals should be given lukewarm feed and water to drink		•••	
	To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery			
<ul><li>Poultry</li><li>Vaccination and deworm</li></ul>		nd deworming	must be carried out	
		Disinfection of	of farm premise	es must be carried out before bringing in new bird, along with equipments,
		utensils and li	tters.	
		Sanitary and I	nygienic practio	ce must be followed at all time.
	Piggery	Put up windbi	reaks and prote	ction from excess cold
		*	•	

<ul> <li>Look out for skin conditions and treat if necessary</li> <li>Wash the sties with potassium permanganate solution a week atleast</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 31<sup>st</sup> Jan to 4<sup>th</sup> Feb'18 Zunheboto District

## **Bulletin No:09/2018**

Weather summary of the preceding week	Weather forecast valid upto 4 <sup>th</sup> Feb 2018
■ No rain occurred the past week	■ Probability of no rain the coming week.
■ Maximum and minimum temperatures ranged	
$23^{\circ}$ C to $25^{\circ}$ C and $8^{\circ}$ C to $9^{\circ}$ C, respectively.	Sky is likely to be clear the coming week
Relative humidity varied from 30% to 99%.	Relative Humidity is likely to range from 34% to 90%.
<ul><li>Wind speed ranged from 1 to 2 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	Harvesting		Intercultural operations in vegetables are advised to remove the weeds.		
cabbage,  Maturing stage  other leafy vegetable develop from the leafy veinlets become black bundle in the stem becattack of soft rot org and cauliflower curds  To manage the attack per liter of water may when the plants are well.		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		Bark eating caterpillar	The caterpillar bore inside the trunk or main stem. During night they came out and feed on the bark of the stem. The stem becomes weak and ultimately fall on the ground.		
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				
<ul> <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>Animals should be given lukewarm feed and water to drink</li> <li>To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery</li> </ul>					
Poultry	Vaccination and deworming must be carried out				
	<ul> <li>Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters.</li> </ul>				
D.			tice must be followed at all time.		
Piggery	-	The op with the procession from the control of the			
	Look out for skin conditions and treat if necessary				

	Wash the sties with potassium permanganate solution a week atleast
	Fisheries
нарзі-ді	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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