



# Integrated Agromet Advisory Service Bulletin from 7<sup>th</sup> to 11<sup>th</sup> Feb'18 Dimapur District

### **Bulletin No:11/2018**

Weather summary of the preceding week	Weather forecast valid upto 11 <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 to	■ Max temp is likely to be 21°C - 22°C and the min temp 11°C to 12°C
25°C and 12°C to 13°C, respectively.	■ Sky is likely to be mainly cloudy the coming week
■ Relative humidity varied from 22% to 88%.	■ <b>Relative Humidity</b> is likely to range from 18% to 90%.
■ Wind speed ranged from 2 to 3 kmph	■ Wind speed may reach upto 3-4 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

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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			
	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			
Moturity store		the ground.  For Ginger and turmeric, field must be inspected daily for disease appearance.			
Wiaturity stage		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			
odic vaccination of	animals again	nst FMD, Brucellosis, Haemorrahagic Septicaemia, Anthrax			
		long with salt regularly and wheat grains, jaggery etc. may be provided @ 10% -			
•		to meet the energy requirement of the animals			
tin the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery					
v decimation and de worming must be carried out					
	and all services are al				
-		l protection from excess cold			
Look out	t for skin cond	litions and treat if necessary			
Wash the sties with potassium permanganate solution a week atleast					
	ould be given mine daily ration during ould be given lukeven the body temperate.  Vaccinate. Disinfect utensils at a Sanitary. Put up we Look out	odic vaccination of animals again tould be given mineral mixture a daily ration during winter season ould be given lukewarm feed and the body temperature of animals  Vaccination and dewo  Disinfection of farm putensils and litters.  Sanitary and hygienic  Put up windbreaks and Look out for skin cond			

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

Khasi

mandarin

**Vegetables** 

Cauliflower,

cabbage,



# **Integrated Agromet Advisory Service Bulletin from 7<sup>th</sup> to 11<sup>th</sup> Feb'18**Kiphire District

### **Bulletin No:11/2018**

Weather summary of the preceding week	Weather forecast valid upto 11 <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 18 <sup>o</sup> C - 19 <sup>o</sup> C and the min temp 10 <sup>o</sup> C to 11 <sup>o</sup> C
22°C to 23°C and 7°C to 9°C, respectively.	Sky is likely to be mainly cloudy the coming week
■ Relative humidity varied from 26% to 88%.	■ Relative Humidity is likely to range from 24% 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

Harvesting stage

Harvesting

Maturing stage

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

Black spot

Cut worm

### 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				

Harvest the ripened fruits at the right time. Collect and discard the fallen fruits

Prevailing weather may conducive for black spot disease in Cole Crops and

other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop

Intercultural operations in vegetables are advised to remove the weeds.

Litchi		Bark eating caterpillar	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  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	
		caterpinar	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>Animals</li><li>20% in the</li><li>Animals</li></ul>	Livestock  • Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrahagic Septicaemia, Anthrax			
Poultry	Vaccination	and dewormin	ng must be carried out	
	Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters.  Carried many distributions are at least to the fall and the fall are details time.			
Diagoni	Sanitary and hygienic practice must be followed at all time.  But the last time to the followed at all time.			
Piggery	-	Put up windbreaks and protection from excess cold		
			ns and treat if necessary	
	Wash the st	ies with potass	sium 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

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6			Aromatic Plants	azezeseyie@yahoo.com
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8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com





## **Integrated Agromet Advisory Service Bulletin from 7<sup>th</sup> to 11<sup>th</sup> Feb'18**Kohima District

## **Bulletin No:11/2018**

Weather summary of the preceding week	Weather forecast valid upto 11 <sup>th</sup> Feb 2018
■ No rain occurred the past week	■ Probability of no rain the coming week.
■ Maximum and minimum temperatures ranged 23	■ Max temp is likely to be 16 <sup>o</sup> C - 17 <sup>o</sup> C and the min temp 7 <sup>o</sup> C to 8 <sup>o</sup> 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 mainly cloudy the coming week
Relative humidity varied from 25% to 95%.	■ Relative Humidity is likely to range from 26% to 87%.
■ Wind speed ranged from 3 to 4 kmph	■ Wind speed may reach upto 3-4kmph
	Wind direction will be mostly southeasterly

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			
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	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 • 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		
भाकि अभीत		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 7<sup>th</sup> to 11<sup>th</sup> Feb'18 Longleng District

### **Bulletin No:11/2018**

Weather summary of the preceding week	Weather forecast valid upto 11 <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 21°C - 22°C and the min temp 11°C to 12°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 24% to 85%.
■ Wind speed ranged from 1 to 2 kmph	■ Wind speed may reach upto 3-4 kmph
	Wind direction will be mostly southeasterly

#### **General Recommendations**

**Vegetables** 

Cauliflower,

cabbage,

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

Harvesting

Maturing stage

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

Black spot

Cut worm

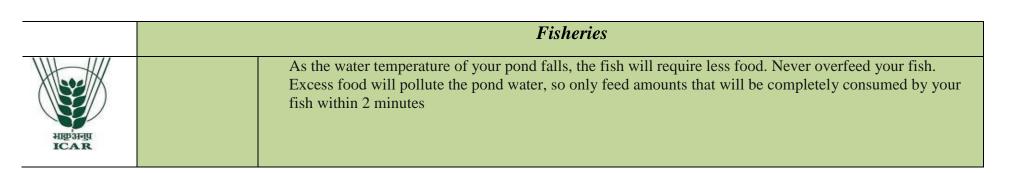
#### Field crops Agro-meteorological Advisories Main Stage Pest/ **Crops Diseases** Dry the paddy grains properly and regularly before storing to reduce TRC/WRC Storage storage insect pests and fungus. Paddy grains can be mixed with neem paddy leaves at the time of storage to reduce storage pests. Flowering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

Intercultural operations in vegetables are advised to remove the weeds.

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.
<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 equipments,</li> </ul>			
Piggery	<ul> <li>utensils and litters.</li> <li>Sanitary and hygienic practice must be followed at all time.</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>		



Sl.no	Name	Designation	Department	
1	Dr.D.J. Rajkhowa	Principle Scientist	Agronomy	djrajkhowa@gmail.com
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# Integrated Agromet Advisory Service Bulletin from 7<sup>th</sup> to 11<sup>th</sup> Feb'18 Mokokchung District

### Bulletin No:11/2018

Weather summary of the preceding week	Weather forecast valid upto 11 <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 21°C - 22°C and the min temp 11°C to 12°C
$24^{\circ}$ C to $25^{\circ}$ C and $10^{\circ}$ C to $11^{\circ}$ C, respectively.	■ Sky is likely to be mainly cloudy the coming week
Relative humidity varied from 42% to 90%.	■ Relative Humidity is likely to range from 23% to 90%.
■ 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 **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/lentil vegetative stage recommended Horticultural crop Harvesting stage Harvest the ripened fruits at the right time. Collect and discard the fallen fruits Khasi mandarin Harvesting *Intercultural operations in vegetables are advised to remove the weeds.* **Vegetables**

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.		
<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>				
	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 7<sup>th</sup> to 11<sup>th</sup> Feb'18 Mon District

### **Bulletin No:11/2018**

Weather summary of the preceding week	Weather forecast valid upto 11 <sup>th</sup> Feb 2018
■ No rain occurred the past week	Probability of no rain the coming week.
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$24^{0}$ C to $25^{0}$ C and $10^{0}$ C to $11^{0}$ C, respectively.	Sky is likely to be cloudy the coming week
■ Relative humidity varied from 30% to 91%	■ Relative Humidity is likely to range from 22% to 85%.
■ Wind speed ranged from 2 to 4 kmph	■ Wind speed may reach upto 4- 6 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/ler	ntil Maturing 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	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.
<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> </ul>			
<ul> <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 equ utensils and litters.</li> <li>Sanitary and hygienic practice must be followed at all time.</li> </ul>			ming must be carried out before bringing in new bird, along with equipments,

• 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

Piggery



### **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
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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
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 7<sup>th</sup> to 11<sup>th</sup> Feb'18 Peren District

### Bulletin No:11/2018

Weather summary of the preceding week	Weather forecast valid upto 11 <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 17 <sup>o</sup> C - 18 <sup>o</sup> C and the min temp 10 <sup>o</sup> C to 11 <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 mainly cloudy the coming week
Relative humidity varied from 27% to 93%.	■ Relative Humidity 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 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 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	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  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.
		Cut World	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>Animals s</li><li>- 20% in t</li><li>Animals s</li></ul>	<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 @ 1 - 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		,	
Disinfection of farm premises must be carried out before bringing in new bird, along with equations and litters.			remises must be carried out before bringing in new bird, along with equipments,
D:	Sanitary and hygienic practice must be followed at all time.		
Piggery	-		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

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3			Agricultural Extension	romen.agext@gmail.com
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5	5 Dr. Mahak Singh Scientist Animal I		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 3<sup>rd</sup> to 7<sup>th</sup> Feb'18 Phek District

## **Bulletin No:11/2018**

Danetin 110.11/2010	
Weather summary of the preceding week	Weather forecast valid upto 11 <sup>th</sup> Feb 2018
No rain occurred the past week	■ Probability of no rain the coming week.
	<ul> <li>Max temp is likely to be 17<sup>o</sup>C - 18<sup>o</sup>C and the min temp 8<sup>o</sup>C to 9<sup>o</sup>C</li> <li>Sky is likely to be mainly cloudy the coming week</li> </ul>
ranged 24 C to 23 C and 8 C to 9 C, respectively.	- Sky is likely to be mainly cloudy the confing week - Relative Humidity is likely to range from 23% to 87%.
Relative humidity varied from 27% to 90%.	■ Wind speed may reach upto 2-3 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		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/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		
mandarin	stage				

Harvesting		Intercultural operations in vegetables are advised to remove the weeds.
, cabbage,  Maturing stage  leafy vegetables. On leaves leaf margins. They become Systemic infection spreads black followed by integration further detoriation. The control become discoloured. To manage the attack in leaf of water may be sprayed. In are wet. Provision of drains		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 Fisheries			
нарзінд ІСАR		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 7<sup>th</sup> to 11<sup>th</sup> Feb'18 Tuensang District

#### Bulletin No:11/2018

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Weather summary of the preceding week	Weather forecast valid upto 11 <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 $15^{\circ}$ C - $16^{\circ}$ C and the min temp $7^{\circ}$ C to $8^{\circ}$ C
20°C to 21°C and 6°C to 7°C, respectively.	Sky is likely to be mainly cloudy the coming week
■ Relative humidity varied from 25% to 95%.	■ Relative Humidity is likely to range from 21% to 82%.
<ul><li>Wind speed ranged from 2 to 3 kmph</li></ul>	■ Wind speed may reach upto 3-4 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.* Harvesting **Vegetables**

Cauliflower,		Black spot   Prevailing weather may conducive for black spot disease in Cole Crops and				
cabbage,	Maturing stage		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	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	tice must be followed at all time.			
Piggery			tection from excess cold			
	Look out for skin conditions and treat if necessary					
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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6			Aromatic Plants	azezeseyie@yahoo.com
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## Integrated Agromet Advisory Service Bulletin from 7<sup>th</sup> to 11<sup>th</sup> Feb'18 Wokha District

## **Bulletin No:11/2018**

Weather summary of the preceding week	Weather forecast valid upto 11 <sup>th</sup> Feb 2018
■ No rain occurred the past week	■ Probability of light rain the coming week.
■ Maximum and minimum temperatures ranged	■ Max temp is likely to be $18^{\circ}$ C - $19^{\circ}$ C and the min temp $8^{\circ}$ 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 27% to 90%.
■ 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	
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	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
			Cut worm	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> </ul>			
		• To maintain the body temperature of animals in milk, they should be fed with a mixture of oil cakes and jaggery		
	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			ction from excess cold
	- 38013	Tut up willus	caks and prote	Cuon nom excess colu

<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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	Dr. Azeze Seyie	Or. Azeze Seyie Scientist Spices, Plantation & Medicinal &		
6	6		Aromatic Plants	azezeseyie@yahoo.com
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8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com





## Integrated Agromet Advisory Service Bulletin from 7<sup>th</sup> to 11<sup>th</sup> Feb'18 Zunheboto District

### **Bulletin No:11/2018**

Weather summary of the preceding week	Weather forecast valid upto 11 <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 $20^{\circ}$ C - $21^{\circ}$ C and the min temp $10^{\circ}$ C to $11^{\circ}$ C
$23^{0}$ C to $25^{0}$ C and $8^{0}$ C to $9^{0}$ C, respectively.	■ Sky is likely to be mainly cloudy the coming week
■ Relative humidity varied from 30% to 99%.	■ Relative Humidity is likely to range from 25% to 87%.
Wind speed ranged from 1 to 2 kmph	■ Wind speed may reach upto 4-5 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.		
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	For Ginger and turmeric, field must be inspected daily for appearance. While inspecting, the healthy plants/plots must be man kept for planting in the next season. Marking has to be done otherwise when plant matures and gets dried up, it will be very dig		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% - • Anima	<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			ng must be carried out		
	• Disinfection of farm premises must be carried out before bringing in new bird, along with equipments, utensils and litters.				
D.			tice must be followed at all time.		
Piggery	-	-	stection from excess cold		
	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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