



# Integrated Agromet Advisory Service Bulletin from 2<sup>nd</sup> to 6<sup>th</sup> May '18

## Dimapur District

**Bulletin No:35/2018**

### *Weather summary of the preceding week*

- Light rain occurred the past week
- Maximum and minimum temperatures ranged 26<sup>0</sup>C to 34<sup>0</sup>C and 17<sup>0</sup>C to 20<sup>0</sup>C, respectively.
- Relative humidity varied from 42% to 96%.
- Wind speed ranged from 1 to 2 kmph

### *Weather forecast valid upto 6<sup>th</sup> May 2018*

- Probability of light rain the coming week.
- **Max temp** is likely to be 30<sup>0</sup>C - 31<sup>0</sup>C and the **min temp** 19<sup>0</sup>C to 20<sup>0</sup>C
- **Sky is likely to be partly cloudy** the coming week
- **Relative Humidity** is likely to range from 26% to 87%.
- **Wind speed** may reach upto 2- 4 kmph
- **Wind direction** will be mostly easterly

- Timely weeding and earthing up should be carried out

### *Field crops*

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Paddy</i>	Storage		<ul style="list-style-type: none"> <li>• Place sticky traps in the drying and storage areas for rats.</li> <li>• Storage rooms should be physically rodent and bird proof, if possible.</li> <li>• Inspect the stored seeds once a week for signs of insect infestation.</li> </ul>
<i>Green gram</i>	Vegetative stage	-	Clean cultivation should be maintained
<i>Maize</i>	vegetative stage		Timely weeding and earthing up should be done for the plant to grow well
<i>Water harvesting</i>			Summer rain is erratic. Dig more number of jalkund or pond to store water right now. Harvested rainwater can give you off season vegetable and a good price

### *Horticultural crop*

- Standing rain water in the field may be drained off immediately after rain
- Planting of vegetable seedlings may be done in raised bed to avoid the soil borne diseases / damping
- Soil application of biocontrol agents (Trichoderma) at 2.5kg/ha with farm manure before transplanting
- Transplanting of King chili should be done

<i>Khasi Mandarin</i>		Leaf miner, aphids, mites, trunk borer	<i>Spray neem oil @5ml/litre water against leaf miner, aphids, mites. Shake the trees to collect adult trunk borer</i>
<i>Cucurbits</i>	Vegetative stage		<i>Provide Proper staking</i>
<i>Okra</i>	Flowering stage	-	<i>Timely earthing up should be done</i>

	<b>Brinjal</b>	Field preparation	<i>Thoroughly prepare the field with application of well dried FYM. Maize should be planted on the border to control movement of white flies</i>
	<b>Ginger / turmeric</b>	Sowing	- <i>Before sowing, treat ginger rhizome in 5% (5 kg in 100 litre of water) Biozin containing Pseudomonas aeruginosa, Trichoderma harzianum and Bacillus brevis for 1 hr.</i>
<b>Livestock</b>			
<ul style="list-style-type: none"> <li>Water stagnation should be avoided in livestock shed to avoid mosquito breeding</li> </ul>			
	<b>Poultry</b>	<ul style="list-style-type: none"> <li>Double the watering space in poultry houses during summer. Provide plenty of fresh , clean and cool drinking water during hot weather</li> <li>In order to encourage feed intake during summer, reduce the energy content of the feed by 10%</li> <li>Birds must be vaccinated against infectious diseases</li> <li>Remove caked up and wet litter immediately from the poultry house to stop excess heat production</li> </ul>	
	<b>Piggery</b>	<ul style="list-style-type: none"> <li>Ensure that pigs have access to an abundant fresh, cool drinking water to avoid heat stress</li> <li>Offer feed that is higher in protein and vitamins to help compensate for their reduction in food intake as pigs tend to eat less feed during summer</li> </ul>	
<b>Fisheries</b>			
 <p>भारतीय ICAR</p>		<ul style="list-style-type: none"> <li>Lime pond as per recommended dose @10kg/bigha</li> <li>Stock fish fingerling @8000/ha</li> <li>Strengthen embankment to avoid erosion due to heavy rainfall</li> <li>If possible, stock bigger size fish seed to ensure faster growth</li> </ul>	

## SCIENTIFIC EXPERT COMMITTEE

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
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8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com



# Integrated Agromet Advisory Service Bulletin from 2<sup>nd</sup> to 6<sup>th</sup> May '18

## Kiphire District

**Bulletin No:35/2018**

### *Weather summary of the preceding week*

- Light rain occurred the past week
- Maximum and minimum temperatures ranged 26<sup>o</sup>C to 28<sup>o</sup>C and 15<sup>o</sup>C to 16<sup>o</sup>C, respectively.
- Relative humidity varied from 23% to 85%.
- Wind speed ranged from 3 to 4 kmph

### *Weather forecast valid upto 6<sup>th</sup> May 2018*

- Probability of light rain the coming week.
- **Max temp** is likely to be 25<sup>o</sup>C - 26<sup>o</sup>C and the **min temp** 15<sup>o</sup>C to 16<sup>o</sup>C
- **Sky is likely to be mainly cloudy** the coming week
- **Relative Humidity** is likely to range from 29% to 90%.
- **Wind speed** may reach upto 3-4 kmph
- **Wind direction** will be mostly easterly

- Timely weeding and earthing up should be carried out as there is probability of light rain the coming week too

### *Field crops*

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Paddy</i>	Storage		<ul style="list-style-type: none"> <li>• Place sticky traps in the drying and storage areas for rats.</li> <li>• Storage rooms should be physically rodent and bird proof, if possible.</li> <li>• Inspect the stored seeds once a week for signs of insect infestation.</li> </ul>
<i>Green gram</i>	Vegetative stage	-	<i>Clean cultivation should be maintained</i>
<i>Maize</i>	vegetative stage		<i>Timely weeding and earthing up should be done for the plant to grow well</i>
<i>Water harvesting</i>			<i>Summer rain is erratic. Dig more number of jalkund or pond to store water right now. Harvested rainwater can give you off season vegetable and a good price</i>
<b><i>Horticultural crop</i></b>			
<ul style="list-style-type: none"> <li>• Standing rain water in the field may be drained off immediately after rain</li> <li>• Planting of vegetable seedlings may be done in raised bed to avoid the soil borne diseases / damping</li> <li>• Soil application of biocontrol agents (Trichoderma) at 2.5kg/ha with farm manure before transplanting</li> <li>• Transplanting of King chili should be done</li> </ul>			
<i>Khasi Mandarin</i>		Leaf miner, aphids, mites, trunk borer	<i>Spray neem oil @5ml/litre water against leaf miner, aphids, mites. Shake the trees to collect adult trunk borer</i>
<i>Cucurbits</i>	Vegetative stage		<i>Provide Proper staking</i>
<i>Okra</i>	Flowering stage	-	<i>Timely earthing up should be done</i>

<b>Brinjal</b>	Field preparation		<i>Thoroughly prepare the field with application of well dried FYM. Maize should be planted on the border to control movement of white flies</i>
<b>Ginger / turmeric</b>	Sowing	-	<i>Before sowing, treat ginger rhizome in 5% (5 kg in 100 litre of water) Biozin containing <i>Pseudomonas aeruginosa</i>, <i>Trichoderma harzianum</i> and <i>Bacillus brevis</i> for 1 hr.</i>
<b>Livestock</b>			
<ul style="list-style-type: none"> <li>Water stagnation should be avoided in livestock shed to avoid mosquito breeding</li> </ul>			
<b>Poultry</b>	<ul style="list-style-type: none"> <li>Double the watering space in poultry houses during summer. Provide plenty of fresh , clean and cool drinking water during hot weather</li> <li>In order to encourage feed intake during summer, reduce the energy content of the feed by 10%</li> <li>Birds must be vaccinated against infectious diseases</li> <li>Remove caked up and wet litter immediately from the poultry house to stop excess heat production</li> </ul>		
<b>Piggery</b>	<ul style="list-style-type: none"> <li>Ensure that pigs have access to an abundant fresh, cool drinking water to avoid heat stress</li> <li>Offer feed that is higher in protein and vitamins to help compensate for their reduction in food intake as pigs tend to eat less feed during summer</li> </ul>		
<b>Fisheries</b>			
	<ul style="list-style-type: none"> <li>Lime pond as per recommended dose @ 10kg/bigha</li> <li>Stock fish fingerling @ 8000/ha</li> <li>Strengthen embankment to avoid erosion due to heavy rainfall</li> <li>If possible, stock bigger size fish seed to ensure faster growth</li> </ul>		

## SCIENTIFIC EXPERT COMMITTEE

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# Integrated Agromet Advisory Service Bulletin from 2<sup>nd</sup> to 6<sup>th</sup> May'18

## Kohima District

**Bulletin No:35/2018**

ICAR RESEARCH COMPLEX FOR NEH REGION  
(Indian Council of Agricultural Research)  
NAGALAND CENTER, JHARNAPANI, MEDZIPHEMA

<i>Weather summary of the preceding week</i>		<i>Weather forecast valid upto 6<sup>th</sup> May 2018</i>	
<ul style="list-style-type: none"> <li>▪ Light rain occurred the past week</li> <li>▪ Maximum and minimum temperatures ranged 23<sup>o</sup>C to 26<sup>o</sup>C and 14<sup>o</sup>C to 15<sup>o</sup>C, respectively.</li> <li>▪ Relative humidity varied from 34% to 90%.</li> <li>▪ Wind speed ranged from 3 to 4 kmph</li> </ul>		<ul style="list-style-type: none"> <li>▪ Probability of moderate rain the coming week.</li> <li>▪ <b>Max temp</b> is likely to be 22<sup>o</sup>C - 23<sup>o</sup>C and the <b>min temp</b> 13<sup>o</sup>C to 14<sup>o</sup>C</li> <li>▪ <b>Sky is likely to be mainly cloudy</b> the coming week</li> <li>▪ <b>Relative Humidity</b> is likely to range from 47% to 92%.</li> <li>▪ <b>Wind speed</b> may reach upto 2-3 kmph</li> <li>▪ <b>Wind direction</b> will be mostly easterly</li> </ul>	
<ul style="list-style-type: none"> <li>• Timely weeding and earthing up should be carried out as there is probability of light rain the coming week too</li> </ul>			
<i>Field crops</i>			
Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Paddy</i>	Storage		<ul style="list-style-type: none"> <li>• Place sticky traps in the drying and storage areas for rats.</li> <li>• Storage rooms should be physically rodent and bird proof, if possible.</li> <li>• Inspect the stored seeds once a week for signs of insect infestation.</li> </ul>
<i>Green gram</i>	Vegetative stage	-	<i>Clean cultivation should be maintained</i>
<i>Maize</i>	vegetative stage		<i>Timely weeding and earthing up should be done for the plant to grow well</i>
<i>Water harvesting</i>			<i>Summer rain is erratic. Dig more number of jalkund or pond to store water right now. Harvested rainwater can give you off season vegetable and a good price</i>
<i>Horticultural crop</i>			
<ul style="list-style-type: none"> <li>• Standing rain water in the field may be drained off immediately after rain</li> <li>• Planting of vegetable seedlings may be done in raised bed to avoid the soil borne diseases / damping</li> <li>• Soil application of biocontrol agents (Trichoderma) at 2.5kg/ha with farm manure before transplanting</li> <li>• Transplanting of King chili should be done</li> </ul>			
<i>Khasi Mandarin</i>		Leaf miner, aphids, mites, trunk borer	<i>Spray neem oil @5ml/litre water against leaf miner, aphids, mites. Shake the trees to collect adult trunk borer</i>

	<b>Cucurbits</b>	Vegetative stage		<i>Provide Proper staking</i>
	<b>Okra</b>	Flowering stage	-	<i>Timely earthing up should be done</i>
	<b>Brinjal</b>	Field preparation		<i>Thoroughly prepare the field with application of well dried FYM. Maize should be planted on the border to control movement of white flies</i>
	<b>Ginger / turmeric</b>	Sowing	-	<i>Before sowing, treat ginger rhizome in 5% (5 kg in 100 litre of water) Biozin containing Pseudomonas aeruginosa, Trichoderma harzianum and Bacillus brevis for 1 hr.</i>
	<b>Khasi Mandarin</b>		Leaf miner, aphids, mites, trunk borer	<i>Spray neem oil @5ml/litre water against leaf miner, aphids, mites. Shake the trees to collect adult trunk borer</i>
<b>Livestock</b>				
<ul style="list-style-type: none"> <li>• Water stagnation should be avoided in livestock shed to avoid mosquito breeding</li> </ul>				
	<b>Poultry</b>	<ul style="list-style-type: none"> <li>• Double the watering space in poultry houses during summer. Provide plenty of fresh , clean and cool drinking water during hot weather</li> <li>• In order to encourage feed intake during summer, reduce the energy content of the feed by 10%</li> <li>• Birds must be vaccinated against infectious diseases</li> <li>• Remove caked up and wet litter immediately from the poultry house to stop excess heat production</li> </ul>		
	<b>Piggery</b>	<ul style="list-style-type: none"> <li>• Ensure that pigs have access to an abundant fresh, cool drinking water to avoid heat stress</li> <li>• Offer feed that is higher in protein and vitamins to help compensate for their reduction in food intake as pigs tend to eat less feed during summer</li> </ul>		
<b>Fisheries</b>				
		<ul style="list-style-type: none"> <li>• Lime pond as per recommended dose @10kg/bigha</li> <li>• Stock fish fingerling @8000/ha</li> <li>• Strengthen embankment to avoid erosion due to heavy rainfall</li> <li>• If possible, stock bigger size fish seed to ensure faster growth</li> </ul>		
 <p>भारत सरकार ICAR</p>				

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ICAR - RCNEH

ICAR RESEARCH COMPLEX FOR NEH REGION  
(Indian Council of Agricultural Research)  
NAGALAND CENTER, JHARNAPANI, MEDZIPHEMA

# Integrated Agromet Advisory Service Bulletin from 2<sup>nd</sup> to 6<sup>th</sup> May '18 Longleng District

**Bulletin No:35/2018**

### Weather summary of the preceding week

- Light rain occurred the past week
- Maximum and minimum temperatures ranged 24<sup>0</sup>C to 27<sup>0</sup>C and 17<sup>0</sup>C to 18<sup>0</sup>C, respectively.
- Relative humidity varied from 23% to 85%.
- Wind speed ranged from 3 to 4 kmph

### Weather forecast valid upto 6<sup>th</sup> May 2018

- Probability of light rain the coming week.
- **Max temp** is likely to be 25<sup>0</sup>C - 26<sup>0</sup>C and the **min temp** 15<sup>0</sup>C to 16<sup>0</sup>C
- **Sky is likely to be mainly cloudy** the coming week
- **Relative Humidity** is likely to range from 31% to 89%.
- **Wind speed** may reach upto 2- 3 kmph  
**Wind direction** will be mostly southeasterly

- Timely weeding and earthing up should be carried out as there is probability of light rain the coming week too

### Field crops

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
Paddy	Storage		<ul style="list-style-type: none"> <li>• Place sticky traps in the drying and storage areas for rats.</li> <li>• Storage rooms should be physically rodent and bird proof, if possible.</li> <li>• Inspect the stored seeds once a week for signs of insect infestation.</li> </ul>
Green gram	Vegetative stage	-	Clean cultivation should be maintained
Maize	vegetative stage		Timely weeding and earthing up should be done for the plant to grow well
Water harvesting			Summer rain is erratic. Dig more number of jalkund or pond to store water right now. Harvested rainwater can give you off season vegetable and a good price

### Horticultural crop

- Standing rain water in the field may be drained off immediately after rain
- Planting of vegetable seedlings may be done in raised bed to avoid the soil borne diseases / damping
- Soil application of biocontrol agents (Trichoderma) at 2.5kg/ha with farm manure before transplanting
- Transplanting of King chili should be done

Khasi Mandarin		Leaf miner, aphids, mites, trunk borer	Spray neem oil @5ml/litre water against leaf miner, aphids, mites. Shake the trees to collect adult trunk borer
Cucurbits	Vegetative stage		Provide Proper staking

	<b>Okra</b>	Flowering stage	-	<i>Timely earthing up should be done</i>
	<b>Brinjal</b>	Field preparation		<i>Thoroughly prepare the field with application of well dried FYM. Maize should be planted on the border to control movement of white flies</i>
	<b>Ginger / turmeric</b>	Sowing	-	<i>Before sowing, treat ginger rhizome in 5% (5 kg in 100 litre of water) Biozin containing Pseudomonas aeruginosa, Trichoderma harzianum and Bacillus brevis for 1 hr.</i>
<b>Livestock</b>				
<ul style="list-style-type: none"> <li>Water stagnation should be avoided in livestock shed to avoid mosquito breeding</li> </ul>				
	<b>Poultry</b>	<ul style="list-style-type: none"> <li>Double the watering space in poultry houses during summer. Provide plenty of fresh , clean and cool drinking water during hot weather</li> <li>In order to encourage feed intake during summer, reduce the energy content of the feed by 10%</li> <li>Birds must be vaccinated against infectious diseases</li> <li>Remove caked up and wet litter immediately from the poultry house to stop excess heat production</li> </ul>		
	<b>Piggery</b>	<ul style="list-style-type: none"> <li>Ensure that pigs have access to an abundant fresh, cool drinking water to avoid heat stress</li> <li>Offer feed that is higher in protein and vitamins to help compensate for their reduction in food intake as pigs tend to eat less feed during summer</li> </ul>		
<b>Fisheries</b>				
		<ul style="list-style-type: none"> <li>Lime pond as per recommended dose @ 10kg/bigha</li> <li>Stock fish fingerling @ 8000/ha</li> <li>Strengthen embankment to avoid erosion due to heavy rainfall</li> <li>If possible, stock bigger size fish seed to ensure faster growth</li> </ul>		

## SCIENTIFIC EXPERT COMMITTEE

Sl.no	Name	Designation	Department	
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# Integrated Agromet Advisory Service Bulletin from 2<sup>nd</sup> to 6<sup>th</sup> May '18

## Mokokchung District

**Bulletin No:35/2018**

### *Weather summary of the preceding week*

- Light rain occurred the past week
- Maximum and minimum temperatures ranged 28<sup>o</sup>C to 30<sup>o</sup>C and 14<sup>o</sup>C to 15<sup>o</sup>C, respectively.
- Relative humidity varied from 29% to 80%.
- Wind speed ranged from 3 to 5 kmph

### *Weather forecast valid upto 6<sup>th</sup> May 2018*

- Probability of light rain the coming week.
- **Max temp** is likely to be 25<sup>o</sup>C - 26<sup>o</sup>C and the **min temp** 15<sup>o</sup>C to 16<sup>o</sup>C
- **Sky is likely to be mainly cloudy** the coming week
- **Relative Humidity** is likely to range from 45% to 90%.
- **Wind speed** may reach upto 3 - 4 kmph
- **Wind direction** will be southeasterly

- Timely weeding and earthing up should be carried out as there is probability of light rain the coming week too

### *Field crops*

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Paddy</i>	Storage		<ul style="list-style-type: none"> <li>• Place sticky traps in the drying and storage areas for rats.</li> <li>• Storage rooms should be physically rodent and bird proof, if possible.</li> <li>• Inspect the stored seeds once a week for signs of insect infestation.</li> </ul>
<i>Green gram</i>	Vegetative stage	-	<i>Clean cultivation should be maintained</i>
<i>Maize</i>	vegetative stage		<i>Timely weeding and earthing up should be done for the plant to grow well</i>
<i>Water harvesting</i>			<i>Summer rain is erratic. Dig more number of jalkund or pond to store water right now. Harvested rainwater can give you off season vegetable and a good price</i>

### *Horticultural crop*

- Standing rain water in the field may be drained off immediately after rain
- Planting of vegetable seedlings may be done in raised bed to avoid the soil borne diseases / damping
- Soil application of biocontrol agents (Trichoderma) at 2.5kg/ha with farm manure before transplanting
- Transplanting of King chili should be done

<i>Khasi Mandarin</i>		Leaf miner, aphids, mites, trunk borer	<i>Spray neem oil @5ml/litre water against leaf miner, aphids, mites. Shake the trees to collect adult trunk borer</i>
<i>Cucurbits</i>	Vegetative stage		<i>Provide Proper staking</i>

<b>Okra</b>	Flowering stage	-	<i>Timely earthing up should be done</i>
<b>Brinjal</b>	Field preparation		<i>Thoroughly prepare the field with application of well dried FYM. Maize should be planted on the border to control movement of white flies</i>
<b>Ginger / turmeric</b>	Sowing	-	<i>Before sowing, treat ginger rhizome in 5% (5 kg in 100 litre of water) Biozin containing <i>Pseudomonas aeruginosa</i>, <i>Trichoderma harzianum</i> and <i>Bacillus brevis</i> for 1 hr.</i>
<b><i>Livestock</i></b>			
<ul style="list-style-type: none"> <li>• Water stagnation should be avoided in livestock shed to avoid mosquito breeding</li> </ul>			
<b>Poultry</b>	<ul style="list-style-type: none"> <li>• Double the watering space in poultry houses during summer. Provide plenty of fresh , clean and cool drinking water during hot weather</li> <li>• In order to encourage feed intake during summer, reduce the energy content of the feed by 10%</li> <li>• Birds must be vaccinated against infectious diseases</li> <li>• Remove caked up and wet litter immediately from the poultry house to stop excess heat production</li> </ul>		
<b>Piggery</b>	<ul style="list-style-type: none"> <li>• Ensure that pigs have access to an abundant fresh, cool drinking water to avoid heat stress</li> <li>• Offer feed that is higher in protein and vitamins to help compensate for their reduction in food intake as pigs tend to eat less feed during summer</li> </ul>		
<b><i>Fisheries</i></b>			
	<ul style="list-style-type: none"> <li>• Lime pond as per recommended dose @10kg/bigha</li> <li>• Stock fish fingerling @8000/ha</li> <li>• Strengthen embankment to avoid erosion due to heavy rainfall</li> <li>• If possible, stock bigger size fish seed to ensure faster growth</li> </ul>		



## SCIENTIFIC EXPERT COMMITTEE

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# Integrated Agromet Advisory Service Bulletin from 2<sup>nd</sup> to 6<sup>th</sup> May '18

## Mon District

**Bulletin No:35/2018**

### *Weather summary of the preceding week*

- Light rain occurred the past week
- Maximum and minimum temperatures ranged 26<sup>o</sup>C to 28<sup>o</sup>C and 14<sup>o</sup>C to 16<sup>o</sup>C, respectively.
- Relative humidity varied from 33% to 87%
- Wind speed ranged from 3 to 5 kmph

### *Weather forecast valid upto 6<sup>th</sup> May 2018*

- Probability of light rain the coming week.
- **Max temp** is likely to be 24<sup>o</sup>C - 25<sup>o</sup>C and the **min temp** 14<sup>o</sup>C to 15<sup>o</sup>C
- **Sky is likely to be mainly cloudy** the coming week
- **Relative Humidity** is likely to range from 39% to 90%.
- **Wind speed** may reach upto 2- 4 kmph
- **Wind direction** will be mostly southeasterly

Timely weeding and earthing up should be carried out

### *Field crops*

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Jhum Paddy</i>			<ul style="list-style-type: none"> <li>• Maize and pulses should be grown as strip crop in hill slopes</li> <li>• Use certified seeds and if there is a history of occurrence of diseases in that particular field then use a resistant variety.</li> </ul>
<i>Paddy</i>	Storage		<ul style="list-style-type: none"> <li>• Place sticky traps in the drying and storage areas for rats.</li> <li>• Storage rooms should be physically rodent and bird proof, if possible.</li> <li>• Inspect the stored seeds once a week for signs of insect infestation.</li> </ul>
<i>Green gram</i>	Vegetative stage	-	Clean cultivation should be maintained
<i>Maize</i>	vegetative stage		Timely weeding and earthing up should be done for the plant to grow well
<i>Water harvesting</i>			Summer rain is erratic. Dig more number of jalkund or pond to store water right now. Harvested rainwater can give you off season vegetable and a good price

### *Horticultural crop*

- Standing rain water in the field may be drained off immediately after rain
- Planting of vegetable seedlings may be done in raised bed to avoid the soil borne diseases / damping
- Soil application of biocontrol agents (Trichoderma) at 2.5kg/ha with farm manure before transplanting
- Transplanting of King chili should be done

<i>Khasi Mandarin</i>		Leaf miner, aphids, mites, trunk borer	Spray neem oil @5ml/litre water against leaf miner, aphids, mites. Shake the trees to collect adult trunk borer
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	<b>Cucurbits</b>	Vegetative stage		<i>Provide Proper staking</i>
	<b>Okra</b>	Flowering stage	-	<i>Timely earthing up should be done</i>
	<b>Brinjal</b>	Field preparation		<i>Thoroughly prepare the field with application of well dried FYM. Maize should be planted on the border to control movement of white flies</i>
	<b>Ginger / turmeric</b>	Sowing	-	<i>Before sowing, treat ginger rhizome in 5% (5 kg in 100 litre of water) Biozin containing Pseudomonas aeruginosa, Trichoderma harzianum and Bacillus brevis for 1 hr.</i>
<b>Livestock</b>				
<ul style="list-style-type: none"> <li>Water stagnation should be avoided in livestock shed to avoid mosquito breeding</li> </ul>				
	<b>Poultry</b>	<ul style="list-style-type: none"> <li>Double the watering space in poultry houses during summer. Provide plenty of fresh , clean and cool drinking water during hot weather</li> <li>In order to encourage feed intake during summer, reduce the energy content of the feed by 10%</li> <li>Birds must be vaccinated against infectious diseases</li> <li>Remove caked up and wet litter immediately from the poultry house to stop excess heat production</li> </ul>		
	<b>Piggery</b>	<ul style="list-style-type: none"> <li>Ensure that pigs have access to an abundant fresh, cool drinking water to avoid heat stress</li> <li>Offer feed that is higher in protein and vitamins to help compensate for their reduction in food intake as pigs tend to eat less feed during summer</li> </ul>		
<b>Fisheries</b>				
		<ul style="list-style-type: none"> <li>Lime pond as per recommended dose @10kg/bigha</li> <li>Stock fish fingerling @8000/ha</li> <li>Strengthen embankment to avoid erosion due to heavy rainfall</li> <li>If possible, stock bigger size fish seed to ensure faster growth</li> </ul>		



## SCIENTIFIC EXPERT COMMITTEE

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
6	Dr. Azeze Seyie	Scientist	Spices, Plantation & Medicinal & 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 2<sup>nd</sup> to 6<sup>th</sup> May '18

## Peren District

**Bulletin No:35/2018**

### *Weather summary of the preceding week*

- Light rain occurred the past week
- Maximum and minimum temperatures ranged 26<sup>o</sup>C to 29<sup>o</sup>C and 14<sup>o</sup>C to 15<sup>o</sup>C, respectively.
- Relative humidity varied from 30% to 87%.
- Wind speed ranged from 3 to 4 kmph

### *Weather forecast valid upto 6<sup>th</sup> May 2018*

- Probability of light rain the coming week.
- **Max temp** is likely to be 24<sup>o</sup>C - 25<sup>o</sup>C and the **min temp** 14<sup>o</sup>C to 15<sup>o</sup>C
- **Sky is likely to be mainly cloudy** the coming week
- **Relative Humidity** is likely to range from 46% to 95%.
- **Wind speed** may reach upto 2-3 kmph
- **Wind direction** will be mostly southeasterly

- Timely weeding and earthing up should be carried out as there is probability of light rain the coming week too

### *Field crops*

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Paddy</i>	Storage		<ul style="list-style-type: none"> <li>• Place sticky traps in the drying and storage areas for rats.</li> <li>• Storage rooms should be physically rodent and bird proof, if possible.</li> <li>• Inspect the stored seeds once a week for signs of insect infestation.</li> </ul>
<i>Green gram</i>	Vegetative stage	-	<i>Clean cultivation should be maintained</i>
<i>Maize</i>	vegetative stage		<i>Timely weeding and earthing up should be done for the plant to grow well</i>
<i>Water harvesting</i>			<i>Summer rain is erratic. Dig more number of jalkund or pond to store water right now. Harvested rainwater can give you off season vegetable and a good price</i>

### *Horticultural crop*

- Standing rain water in the field may be drained off immediately after rain
- Planting of vegetable seedlings may be done in raised bed to avoid the soil borne diseases / damping
- Soil application of biocontrol agents (Trichoderma) at 2.5kg/ha with farm manure before transplanting
- Transplanting of King chili should be done

<i>Khasi Mandarin</i>		Leaf miner, aphids, mites, trunk	<i>Spray neem oil @5ml/litre water against leaf miner, aphids, mites. Shake the trees to collect adult trunk borer</i>
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			borer	
	<b>Cucurbits</b>	Vegetative stage		<i>Provide Proper staking</i>
	<b>Okra</b>	Flowering stage	-	<i>Timely earthing up should be done</i>
	<b>Brinjal</b>	Field preparation		<i>Thoroughly prepare the field with application of well dried FYM. Maize should be planted on the border to control movement of white flies</i>
	<b>Ginger / turmeric</b>	Sowing	-	<i>Before sowing, treat ginger rhizome in 5% (5 kg in 100 litre of water) Biozin containing Pseudomonas aeruginosa, Trichoderma harzianum and Bacillus brevis for 1 hr.</i>
	<b>Livestock</b>			
	<ul style="list-style-type: none"> <li>Water stagnation should be avoided in livestock shed to avoid mosquito breeding</li> </ul>			
	<b>Poultry</b>	<ul style="list-style-type: none"> <li>Double the watering space in poultry houses during summer. Provide plenty of fresh , clean and cool drinking water during hot weather</li> <li>In order to encourage feed intake during summer, reduce the energy content of the feed by 10%</li> <li>Birds must be vaccinated against infectious diseases</li> <li>Remove caked up and wet litter immediately from the poultry house to stop excess heat production</li> </ul>		
	<b>Piggery</b>	<ul style="list-style-type: none"> <li>Ensure that pigs have access to an abundant fresh, cool drinking water to avoid heat stress</li> <li>Offer feed that is higher in protein and vitamins to help compensate for their reduction in food intake as pigs tend to eat less feed during summer</li> </ul>		
	<b>Fisheries</b>			
		<ul style="list-style-type: none"> <li>Lime pond as per recommended dose @ 10kg/bigha</li> <li>Stock fish fingerling @ 8000/ha</li> <li>Strengthen embankment to avoid erosion due to heavy rainfall</li> <li>If possible, stock bigger size fish seed to ensure faster growth</li> </ul>		



## SCIENTIFIC EXPERT COMMITTEE

Sl.no	Name	Designation	Department	
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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 2<sup>nd</sup> to 6<sup>th</sup> May '18 Phek District

**Bulletin No:35/2018**

### *Weather summary of the preceding week*

- Light rain occurred the past week
- Maximum and minimum temperatures ranged 23<sup>0</sup>C to 24<sup>0</sup>C and 14<sup>0</sup>C to 15<sup>0</sup>C, respectively.
- Relative humidity varied from 28% to 85%.
- Wind speed ranged from 3 to 4 kmph

### *Weather forecast valid upto 6<sup>th</sup> May 2018*

- Probability of light rain the coming week.
- **Max temp** is likely to be 23<sup>0</sup>C - 24<sup>0</sup>C and the **min temp** 14<sup>0</sup>C to 15<sup>0</sup>C
- **Sky is likely to be mainly cloudy** the coming week
- **Relative Humidity** is likely to range from 35% to 90%.
- **Wind speed** may reach upto 2-3 kmph  
**Wind direction** will be southeasterly

- Timely weeding and earthing up should be carried out as there is probability of light rain the coming week too

### *Field crops*

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Paddy</i>	Storage		<ul style="list-style-type: none"> <li>• Place sticky traps in the drying and storage areas for rats.</li> <li>• Storage rooms should be physically rodent and bird proof, if possible.</li> <li>• Inspect the stored seeds once a week for signs of insect infestation.</li> </ul>
<i>Green gram</i>	Vegetative stage	-	Clean cultivation should be maintained
<i>Maize</i>	vegetative stage		Timely weeding and earthing up should be done for the plant to grow well
<i>Water harvesting</i>			Summer rain is erratic. Dig more number of jalkund or pond to store water right now. Harvested rainwater can give you off season vegetable and a good price

### *Horticultural crop*

- Standing rain water in the field may be drained off immediately after rain
- Planting of vegetable seedlings may be done in raised bed to avoid the soil borne diseases / damping
- Soil application of biocontrol agents (Trichoderma) at 2.5kg/ha with farm manure before transplanting
- Transplanting of King chili should be done

<i>Khasi Mandarin</i>		Leaf miner, aphids, mites, trunk	Spray neem oil @5ml/litre water against leaf miner, aphids, mites. Shake the trees to collect adult trunk borer
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			borer	
	<i>Cucurbits</i>	Vegetative stage		<i>Provide Proper staking</i>
	<i>Okra</i>	Flowering stage	-	<i>Timely earthing up should be done</i>
	<i>Brinjal</i>	Field preparation		<i>Thoroughly prepare the field with application of well dried FYM. Maize should be planted on the border to control movement of white flies</i>
	<i>Ginger / turmeric</i>	Sowing	-	<i>Before sowing, treat ginger rhizome in 5% (5 kg in 100 litre of water) Biozin containing Pseudomonas aeruginosa, Trichoderma harzianum and Bacillus brevis for 1 hr.</i>
<b><i>Livestock</i></b>				
<ul style="list-style-type: none"> <li>• Water stagnation should be avoided in livestock shed to avoid mosquito breeding</li> </ul>				
	<i>Poultry</i>	<ul style="list-style-type: none"> <li>• Double the watering space in poultry houses during summer. Provide plenty of fresh , clean and cool drinking water during hot weather</li> <li>• In order to encourage feed intake during summer, reduce the energy content of the feed by 10%</li> <li>• Birds must be vaccinated against infectious diseases</li> <li>• Remove caked up and wet litter immediately from the poultry house to stop excess heat production</li> </ul>		
	<i>Piggery</i>	<ul style="list-style-type: none"> <li>• Ensure that pigs have access to an abundant fresh, cool drinking water to avoid heat stress</li> <li>• Offer feed that is higher in protein and vitamins to help compensate for their reduction in food intake as pigs tend to eat less feed during summer</li> </ul>		
<b><i>Fisheries</i></b>				
		<ul style="list-style-type: none"> <li>• Lime pond as per recommended dose @10kg/bigha</li> <li>• Stock fish fingerling @8000/ha</li> <li>• Strengthen embankment to avoid erosion due to heavy rainfall</li> <li>• If possible, stock bigger size fish seed to ensure faster growth</li> </ul>		

<b>Sl.no</b>	<b>Name</b>	<b>Designation</b>	<b>Department</b>	
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8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com



# Integrated Agromet Advisory Service Bulletin from 2<sup>nd</sup> to 6<sup>th</sup> May '18 Tuensang District

**Bulletin No:35/2018**

### *Weather summary of the preceding week*

- Light rain occurred the past week
- Maximum and minimum temperatures ranged 25<sup>0</sup>C to 27<sup>0</sup>C and 13<sup>0</sup>C to 14<sup>0</sup>C, respectively.
- Relative humidity varied from 29% to 80%.
- Wind speed ranged from 3 to 4 kmph

### *Weather forecast valid upto 6<sup>th</sup> May 2018*

- Probability of light rain the coming week.
- **Max temp** is likely to be 22<sup>0</sup>C - 23<sup>0</sup>C and the **min temp** 12<sup>0</sup>C to 13<sup>0</sup>C
- **Sky is likely to be mainly cloudy** the coming week
- **Relative Humidity** is likely to range from 36% to 95%.
- **Wind speed** may reach upto 3-4 kmph
- **Wind direction** will be southeasterly

- Timely weeding and earthing up should be carried out as there is probability of light rain the coming week too

### *Field crops*

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<b>Paddy</b>	Storage		<ul style="list-style-type: none"> <li>• Place sticky traps in the drying and storage areas for rats.</li> <li>• Storage rooms should be physically rodent and bird proof, if possible.</li> <li>• Inspect the stored seeds once a week for signs of insect infestation.</li> </ul>
<b>Green gram</b>	Vegetative stage	-	Clean cultivation should be maintained
<b>Maize</b>	vegetative stage		Timely weeding and earthing up should be done for the plant to grow well
<b>Water harvesting</b>			Summer rain is erratic. Dig more number of jalkund or pond to store water right now. Harvested rainwater can give you off season vegetable and a good price
<b><i>Horticultural crop</i></b>			
<ul style="list-style-type: none"> <li>• Standing rain water in the field may be drained off immediately after rain</li> <li>• Planting of vegetable seedlings may be done in raised bed to avoid the soil borne diseases / damping</li> <li>• Soil application of biocontrol agents (Trichoderma) at 2.5kg/ha with farm manure before transplanting</li> <li>• Transplanting of King chili should be done</li> </ul>			
<b>Khasi Mandarin</b>		Leaf miner, aphids, mites, trunk borer	Spray neem oil @5ml/litre water against leaf miner, aphids, mites. Shake the trees to collect adult trunk borer

	<b>Cucurbits</b>	Vegetative stage		<i>Provide Proper staking</i>
	<b>Okra</b>	Flowering stage	-	<i>Timely earthing up should be done</i>
	<b>Brinjal</b>	Field preparation		<i>Thoroughly prepare the field with application of well dried FYM. Maize should be planted on the border to control movement of white flies</i>
	<b>Ginger / turmeric</b>	Sowing	-	<i>Before sowing, treat ginger rhizome in 5% (5 kg in 100 litre of water) Biozin containing Pseudomonas aeruginosa, Trichoderma harzianum and Bacillus brevis for 1 hr.</i>
	<b>Livestock</b>			
<ul style="list-style-type: none"> <li>Water stagnation should be avoided in livestock shed to avoid mosquito breeding</li> </ul>				
	<b>Poultry</b>	<ul style="list-style-type: none"> <li>Double the watering space in poultry houses during summer. Provide plenty of fresh , clean and cool drinking water during hot weather</li> <li>In order to encourage feed intake during summer, reduce the energy content of the feed by 10%</li> <li>Birds must be vaccinated against infectious diseases</li> <li>Remove caked up and wet litter immediately from the poultry house to stop excess heat production</li> </ul>		
	<b>Piggery</b>	<ul style="list-style-type: none"> <li>Ensure that pigs have access to an abundant fresh, cool drinking water to avoid heat stress</li> <li>Offer feed that is higher in protein and vitamins to help compensate for their reduction in food intake as pigs tend to eat less feed during summer</li> </ul>		
<b>Fisheries</b>				
		<ul style="list-style-type: none"> <li>Lime pond as per recommended dose @10kg/bigha</li> <li>Stock fish fingerling @8000/ha</li> <li>Strengthen embankment to avoid erosion due to heavy rainfall</li> <li>If possible, stock bigger size fish seed to ensure faster growth</li> </ul>		

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# Integrated Agromet Advisory Service Bulletin from 2<sup>nd</sup> to 6<sup>th</sup> May '18

## Wokha District

**Bulletin No:35/2018**

### *Weather summary of the preceding week*

- Light rain occurred the past week
- Maximum and minimum temperatures ranged 26<sup>o</sup>C to 29<sup>o</sup>C and 14<sup>o</sup>C to 15<sup>o</sup>C, respectively.
- Relative humidity varied from 32% to 85%.
- Wind speed ranged from 4 to 5 kmph

### *Weather forecast valid upto 6<sup>th</sup> May 2018*

- Probability of light rain the coming week.
- **Max temp** is likely to be 24<sup>o</sup>C - 25<sup>o</sup>C and the **min temp** 14<sup>o</sup>C to 15<sup>o</sup>C
- **Sky is likely to be mainly cloudy** the coming week
- **Relative Humidity** is likely to range from 52% to 91%.
- **Wind speed** may reach upto 3- 4 kmph
- **Wind direction** will be southeasterly

- Timely weeding and earthing up should be carried out as there is probability of light rain the coming week too

### *Field crops*

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Paddy</i>	Storage		<ul style="list-style-type: none"> <li>• Place sticky traps in the drying and storage areas for rats.</li> <li>• Storage rooms should be physically rodent and bird proof, if possible.</li> <li>• Inspect the stored seeds once a week for signs of insect infestation.</li> </ul>
<i>Green gram</i>	Vegetative stage	-	Clean cultivation should be maintained
<i>Maize</i>	vegetative stage		Timely weeding and earthing up should be done for the plant to grow well
<i>Water harvesting</i>			Summer rain is erratic. Dig more number of jalkund or pond to store water right now. Harvested rainwater can give you off season vegetable and a good price

### *Horticultural crop*

- Standing rain water in the field may be drained off immediately after rain
- Planting of vegetable seedlings may be done in raised bed to avoid the soil borne diseases / damping
- Soil application of biocontrol agents (Trichoderma) at 2.5kg/ha with farm manure before transplanting
- Transplanting of King chili should be done

<i>Khasi Mandarin</i>		Leaf miner, aphids, mites, trunk borer	<i>Spray neem oil @5ml/litre water against leaf miner, aphids, mites. Shake the trees to collect adult trunk borer</i>
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	<b>Cucurbits</b>	Vegetative stage		<i>Provide Proper staking</i>
	<b>Okra</b>	Flowering stage	-	<i>Timely earthing up should be done</i>
	<b>Brinjal</b>	Field preparation		<i>Thoroughly prepare the field with application of well dried FYM. Maize should be planted on the border to control movement of white flies</i>
	<b>Ginger / turmeric</b>	Sowing	-	<i>Before sowing, treat ginger rhizome in 5% (5 kg in 100 litre of water) Biozin containing Pseudomonas aeruginosa, Trichoderma harzianum and Bacillus brevis for 1 hr.</i>
	<b>Livestock</b>			
	<ul style="list-style-type: none"> <li>• Water stagnation should be avoided in livestock shed to avoid mosquito breeding</li> </ul>			
	<b>Poultry</b>	<ul style="list-style-type: none"> <li>• Double the watering space in poultry houses during summer. Provide plenty of fresh , clean and cool drinking water during hot weather</li> <li>• In order to encourage feed intake during summer, reduce the energy content of the feed by 10%</li> <li>• Birds must be vaccinated against infectious diseases</li> <li>• Remove caked up and wet litter immediately from the poultry house to stop excess heat production</li> </ul>		
	<b>Piggery</b>	<ul style="list-style-type: none"> <li>• Ensure that pigs have access to an abundant fresh, cool drinking water to avoid heat stress</li> <li>• Offer feed that is higher in protein and vitamins to help compensate for their reduction in food intake as pigs tend to eat less feed during summer</li> </ul>		
	<b>Fisheries</b>			
		<ul style="list-style-type: none"> <li>• Lime pond as per recommended dose @ 10kg/bigha</li> <li>• Stock fish fingerling @ 8000/ha</li> <li>• Strengthen embankment to avoid erosion due to heavy rainfall</li> <li>• If possible, stock bigger size fish seed to ensure faster growth</li> </ul>		



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भा क अनुप - पु प सं  
ICAR - RCNEH

ICAR RESEARCH COMPLEX FOR NEH REGION  
(Indian Council of Agricultural Research)  
NAGALAND CENTER, JHARNAPANI, MEDZIPHEMA

## Integrated Agromet Advisory Service Bulletin from 2<sup>nd</sup> to 6<sup>th</sup> May '18 Zunheboto District

**Bulletin No:35/2018**

### *Weather summary of the preceding week*

- Light rain occurred the past week
- Maximum and minimum temperatures ranged 25<sup>o</sup>C to 29<sup>o</sup>C and 14<sup>o</sup>C to 15<sup>o</sup>C, respectively.
- Relative humidity varied from 31% to 84%.
- Wind speed ranged from 4 to 5 kmph

### *Weather forecast valid upto 6<sup>th</sup> May 2018*

- Probability of light rain the coming week.
- **Max temp** is likely to be 24<sup>o</sup>C - 25<sup>o</sup>C and the **min temp** 14<sup>o</sup>C to 15<sup>o</sup>C
- **Sky is likely to be mainly cloudy** the coming week
- **Relative Humidity** is likely to range from 43% to 90%.
- **Wind speed** may reach upto 3-4 kmph
- **Wind direction** will be southeasterly

- Timely weeding and earthing up should be carried out as there is probability of light rain the coming week too

### *Field crops*

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>Paddy</i>	Storage		<ul style="list-style-type: none"> <li>• Place sticky traps in the drying and storage areas for rats.</li> <li>• Storage rooms should be physically rodent and bird proof, if possible.</li> <li>• Inspect the stored seeds once a week for signs of insect infestation.</li> </ul>
<i>Green gram</i>	Vegetative stage	-	Clean cultivation should be maintained
<i>Maize</i>	vegetative stage		Timely weeding and earthing up should be done for the plant to grow well
<i>Water harvesting</i>			Summer rain is erratic. Dig more number of jalkund or pond to store water right now. Harvested rainwater can give you off season vegetable and a good price

### *Horticultural crop*

- Standing rain water in the field may be drained off immediately after rain
- Planting of vegetable seedlings may be done in raised bed to avoid the soil borne diseases / damping
- Soil application of biocontrol agents (Trichoderma) at 2.5kg/ha with farm manure before transplanting
- Transplanting of King chili should be done

<i>Khasi Mandarin</i>		Leaf miner, aphids, mites, trunk	Spray neem oil @5ml/litre water against leaf miner, aphids, mites. Shake the trees to collect adult trunk borer
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			borer	
	<b>Cucurbits</b>	Vegetative stage		<i>Provide Proper staking</i>
	<b>Okra</b>	Flowering stage	-	<i>Timely earthing up should be done</i>
	<b>Brinjal</b>	Field preparation		<i>Thoroughly prepare the field with application of well dried FYM. Maize should be planted on the border to control movement of white flies</i>
	<b>Ginger / turmeric</b>	Sowing	-	<i>Before sowing, treat ginger rhizome in 5% (5 kg in 100 litre of water) Biozin containing Pseudomonas aeruginosa, Trichoderma harzianum and Bacillus brevis for 1 hr.</i>
<b><i>Livestock</i></b>				
<ul style="list-style-type: none"> <li>• Water stagnation should be avoided in livestock shed to avoid mosquito breeding</li> </ul>				
	<b><i>Poultry</i></b>	<ul style="list-style-type: none"> <li>• Double the watering space in poultry houses during summer. Provide plenty of fresh , clean and cool drinking water during hot weather</li> <li>• In order to encourage feed intake during summer, reduce the energy content of the feed by 10%</li> <li>• Birds must be vaccinated against infectious diseases</li> <li>• Remove caked up and wet litter immediately from the poultry house to stop excess heat production</li> </ul>		
	<b><i>Piggery</i></b>	<ul style="list-style-type: none"> <li>• Ensure that pigs have access to an abundant fresh, cool drinking water to avoid heat stress</li> <li>• Offer feed that is higher in protein and vitamins to help compensate for their reduction in food intake as pigs tend to eat less feed during summer</li> </ul>		
<b><i>Fisheries</i></b>				
		<ul style="list-style-type: none"> <li>• Lime pond as per recommended dose @ 10kg/bigha</li> <li>• Stock fish fingerling @ 8000/ha</li> <li>• Strengthen embankment to avoid erosion due to heavy rainfall</li> <li>• If possible, stock bigger size fish seed to ensure faster growth</li> </ul>		

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