

### Integrated Agromet Advisory Service Bulletin from 15<sup>th</sup> to 19<sup>th</sup> Sept'18 Peren District

### Bulletin No:74/2018

	Weather summary of the preceding week	Weather forecast valid upto 19 <sup>th</sup> Sept' 2018		
	• Light rain occurred the past week	<ul> <li>Probability of light rain the coming week.</li> </ul>		
	• Maximum and minimum temperatures ranged	• Max temp is likely to be $27^{\circ}$ C - $28^{\circ}$ C and the min temp $21^{\circ}$ C to $22^{\circ}$ C		
	$30^{\circ}$ C to $32^{\circ}$ C and $23^{\circ}$ C to $24^{\circ}$ C, respectively.	Sky is likely to be mainly cloudy the coming week		
<ul> <li>Relative humidity varied from 62% to 94%.</li> <li>Relative Humidity is like</li> </ul>		Relative Humidity is likely to range from 61% to 97%.		
	Wind speed ranged from 5 to 6 kmph	• Wind speed may reach upto 1-2 kmph		
	Wind direction will be mostly southerly			
	In situ rain water conservation through mulching	and an situ moisture conservation through low cost water hervesting structure.		

In-situ rain water conservation through mulching and ex-situ moisture conservation through low cost water harvesting structure like Jalkund should be carried out.

	Field crops					
Main Crops	Main CropsStagePesDisea		Agro-meteorological Advisories			
Jhum Paddy	Harvesting Stored stage grain rice weevil		Keeping neem leave and branches over the stored rice help in controlling the pest			
TRC/WRC paddy	Stem elongation stage	Leaf folder	To control the pest, mechanical methods, such as rope method (to dislodge the larvae) is advised. In this method, water is allowed to stand in the field up to 2 cm and a rope is hold by two persons at two corners of the field and it is moved in such a way that it swayed the standing paddy crop. The larvae which feed on the folded leafs fall in the water due to mechanical disturbances. After that bunds are opened at many places to drain out water. Insects are collected and destroyed. This process should be repeated two to three times to get desirable result.			
Soybean	Podding stage	-	Proper drainage should be maintained and timely earthing up should be carried out			
• Proper w	<ul> <li>Horticultural crop</li> <li>Proper weeding, earthing up should be done and staking should be done for good production.</li> </ul>					
Citrus		Trunk borer	To kill the trunk borer grubs, clean the bored holes of the infested trunk with iron wire and insert a cotton swab soaked in petrol or kerosene and plug with mud.			

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	Cucurbits	Harvesting	-	Avoid injuries during harvesting and handling.			
		stage					
	Ohan	Emitin a ta	Creation				
	Okra	Fruiting to	Spotted bollworm	• <i>Remove regularly the attacked fruits and bury deep in the soil.</i>			
		harvesting	DOIIWOIIII	Harvesting should be done timely			
	Brinjal	stage Fruiting and	Shoot and	Damage is done by caterpillars by affecting the shoots and fruits which are			
	Drinjui	harvesting	fruit borer	rendered unfit for consumption.			
		stage	fruit borer	Dropping and wilting shoots indicate the presence of caterpillars in the nodes			
		Stuge		of the stem and large holes in the fruits indicate exit holes of the caterpillars,			
				Destroy affected fruits and dropping shoots, by burning and burying, and			
				clean culture to destroy the pupae.			
	Ginger /	Vegetative	Rhizome rot	Farmers are advised to monitor the ginger against rhizome rot. Leaves of the			
	turmeric	stage		affected plants become yellow, water soaked appearance found at the base of			
				pseudo stem and rotting take place at the basal portion. The affected rhizomes			
	become soft, pulpy and plant easily collapse on pressing.						
	Livestock						
		Water s	•	d be avoided in livestock shed to avoid mosquito breeding.			
	Daily provide clean and cool drinking water to the animals						
	Poultry			viral disease of poultry which is characterized by involvement of respiratory			
				n, diarrhoea and mortality as high as 100% in severe cases.			
	Regular disinfection of farm premises and equipment with potassium permanganate (1: 1000), sodium hydroxide (2%) or Lysol (1: 5,000) are useful in preventing this disease. Disease can be prevented effectively						
				accination, proper management and strict biosecurity.			
Htatt	Piggery			nant sows one week before farrowing by providing adequate space, feed, water			
		etc. The sows as well as farrowing pens should be disinfected 3-4 days before the expected date of farrowing					
	and the sows should be placed in the farrowing pen after bedding it properly.						
भाकुंअनुप				Fisheries			
ICAR			· · · · · · · · · · · · · · · · · · ·	and muddy water influx from the surrounding areas, the ponds may result in			
	reduction of dissolved oxygen. Stir the water with a bamboo pole as it will help in increasing the						
	oxygen and protect the fishes from suffocation						

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 15<sup>th</sup> to 19<sup>th</sup> Sept'18** Phek District

#### Bulletin No:74/2018

Weather summary of the preceding week	Weather forecast valid upto 19 <sup>th</sup> Sept' 2018
<ul> <li>Moderate rain occurred the past week</li> </ul>	Probability of moderate rain the coming week.
• Maximum and minimum temperatures	• Max temp is likely to be $25^{\circ}$ C - $26^{\circ}$ C and the min temp $18^{\circ}$ C to $20^{\circ}$ C
ranged $27^{\circ}$ C to $30^{\circ}$ C and $20^{\circ}$ C to $24^{\circ}$ C,	Sky is likely to be mainly cloudy the coming week
respectively.	Relative Humidity is likely to range from 50% to 96%.
• Relative humidity varied from 52% to 95%.	Wind speed may reach upto 2-3 kmph
• Wind speed ranged from 2 to 3 kmph	Wind direction will be mostly southeasterly

			Field crops				
Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories				
Jhum Paddy	Harvesting stage	Stored grain rice weevil	Keeping neem leave and branches over the stored rice help in controlling the pest				
TRC/WRC paddy	Milk development stage	Gundhi bug	Feeding causes empty or small grains during the milking stage. At the soft present stage, feeding will cause deformed or spotty grains. Do proper surveillance of the field.				
Soybean	Podding stage	-	Proper drainage should be maintained and timely earthing up should be carried out				
Horticultural crop							
Proper	• Proper weeding, earthing up should be done and staking should be done for good production.						
Citrus		Trunk borer	To kill the trunk borer grubs, clean the bored holes of the infested trunk with iror wire and insert a cotton swab soaked in petrol or kerosene and plug with mud.				
Cucurbits	Harvesting stage	-	Avoid injuries during harvesting and handling.				

	Okra	Fruiting to	Spotted	• <i>Remove regularly the attacked fruits and bury deep in the soil.</i>			
		harvesting stage	bollworm	• Harvesting should be done timely			
	Brinjal	Fruiting and	Shoot and	Damage is done by caterpillars by affecting the shoots and fruits which are			
		harvesting stage	fruit borer	rendered unfit for consumption.			
				Dropping and wilting shoots indicate the presence of caterpillars in the nodes of the			
				stem and large holes in the fruits indicate exit holes of the caterpillars,			
				Destroy affected fruits and dropping shoots, by burning and burying, and			
	~			clean culture to destroy the pupae.			
	Ginger /	Vegetative	Rhizome rot	0 0 0 ~ 5			
	turmeric	stage		affected plants become yellow, water soaked appearance found at the base of			
				pseudo stem and rotting take place at the basal portion. The affected rhizomes			
				become soft, pulpy and plant easily collapse on pressing.			
	<i>Livestock</i> Water stagnation should be avoided in livestock shed to avoid mosquito breeding.						
		vv ater		vide clean and cool drinking water to the animals			
	Poultry	Ranikhet disease:		disease of poultry which is characterized by involvement of respiratory system, drop			
	1 outry			mortality as high as 100% in severe cases.			
				mises and equipment with potassium permanganate (1: 1000), sodium hydroxide (2%)			
		-	-	in preventing this disease. Disease can be prevented effectively by an integrated			
		approach of vaccination, proper management and strict biosecurity.					
	Piggery			nt sows one week before farrowing by providing adequate space, feed, water etc. The			
	1 (880)			should be disinfected 3-4 days before the expected date of farrowing and the sows			
				g pen after bedding it properly.			
		·		Fisheries			
		Due to hea	avy rainfall and	I muddy water influx from the surrounding areas, the ponds may result in reduction of			
XIILOOU//X		dissolved oxygen. Stir the water with a bamboo pole as it will help in increasing the oxygen and protect the					
		fishes from	n suffocation				
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	Dr. Azeze Seyie Scientist Spices, Plantation & M		Spices, Plantation & Medicinal &	
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# **Integrated Agromet Advisory Service Bulletin from 15<sup>th</sup> to 19<sup>th</sup> Sept'18** Tuensang District

#### Bulletin No:74/2018

Weather summary of the preceding week	Weather forecast valid upto 19 <sup>th</sup> Sept' 2018
Moderate rain occurred the past week	Probability of moderate rain the coming week.
• Maximum and minimum temperatures ranged	• Max temp is likely to be 33 <sup>o</sup> C - 37 <sup>o</sup> C and the min temp 23 <sup>o</sup> C to 25 <sup>o</sup> C
$25^{\circ}$ C to $28^{\circ}$ C and $16^{\circ}$ C to $19^{\circ}$ C, respectively.	Sky is likely to be mainly cloudy the coming week
Relative humidity varied from 64% to 92%.	• <b>Relative Humidity</b> is likely to range from 54% to 97%.
Wind speed ranged from 2 to 3 kmph	Wind speed may reach upto 2-3 kmph
	• Wind direction will be mostly southeasterly

			Field crops			
MainStagePest/CropsDiseases			Agro-meteorological Advisories			
Jhum Paddy	Harvesting stage	Stored grain rice weevil	Keeping neem leave and branches over the stored rice help in controllin the pest			
TRC/WRC paddy	Milk development stage	Gundhi bug	Feeding causes empty or small grains during the milking stage. At the so present stage, feeding will cause deformed or spotty grains. Do prope surveillance of the field.			
Soybean	Podding stage	-	Proper drainage should be maintained and timely earthing up should be carried out			
Proper	<ul> <li>Horticultural crop</li> <li>Proper weeding, earthing up should be done and staking should be done for good production.</li> </ul>					
Citrus		Trunk borer	To kill the trunk borer grubs, clean the bored holes of the infested trunk with iron wire and insert a cotton swab soaked in petrol or kerosene and plu with mud.			
Cucurbits	Harvesting stage	-	Avoid injuries during harvesting and handling.			
Okra	Fruiting to harvesting stage	Spotted bollworm	<ul> <li><i>Remove regularly the attacked fruits and bury deep in the soil.</i></li> <li><i>Harvesting should be done timely</i></li> </ul>			

	Brinjal	Fruiting and	Shoot and	Damage is done by caterpillars by affecting the shoots and fruits which are
	Dringui	harvesting stage	fruit borer	rendered unfit for consumption.
				Dropping and wilting shoots indicate the presence of caterpillars in the
				nodes of the stem and large holes in the fruits indicate exit holes of the
				caterpillars,
				Destroy affected fruits and dropping shoots, by burning and burying, and
				clean culture to destroy the pupae.
	Ginger /	Vegetative stage	Rhizome rot	Farmers are advised to monitor the ginger against rhizome rot. Leaves of
	turmeric			the affected plants become yellow, water soaked appearance found at the
				base of pseudo stem and rotting take place at the basal portion. The affected
				rhizomes become soft, pulpy and plant easily collapse on pressing.
				Livestock
		Water stagn	ation should be	e avoided in livestock shed to avoid mosquito breeding.
			Daily provide o	clean and cool drinking water to the animals
	Poultry			isease of poultry which is characterized by involvement of respiratory system,
				and mortality as high as 100% in severe cases.
		Regular disinfection	on of farm pr	remises and equipment with potassium permanganate (1: 1000), sodium
		hydroxide (2%) or 1	Lysol (1: 5,000	) are useful in preventing this disease. Disease can be prevented effectively by
		an integrated approx	ach of vaccinat	ion, proper management and strict biosecurity.
	Piggery	Give special attention	on to pregnant	sows one week before farrowing by providing adequate space, feed, water etc.
		The sows as well as	farrowing pen	s should be disinfected 3-4 days before the expected date of farrowing and the
		sows should be place	ced in the farro	wing pen after bedding it properly.
				Fisheries
		Due to heavy rainfall and muddy water influx from the surrounding areas, the ponds may result		
reduction of dissolved oxygen. Stir the water with a bamboo pole as it will help in ind			gen. Stir the water with a bamboo pole as it will help in increasing the oxygen	
	and protect the fishes from suffocation			suffocation
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# **Integrated Agromet Advisory Service Bulletin from 15<sup>th</sup> to 19<sup>th</sup> Sept'18** Wokha District

#### Bulletin No:74/2018

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Weather summary of the preceding week			Weather forecast valid upto 19 <sup>th</sup> Sept' 2018		
Light rain occ	curred the past week		<ul> <li>Probability of light rain the coming week.</li> </ul>		
• Maximum and minimum temperatures ranged			• Max temp is likely to be $27^{\circ}$ C - $28^{\circ}$ C and the min temp $21^{\circ}$ C to $22^{\circ}$ C		
$29^{\circ}$ C to $31^{\circ}$ C	and 20°C to 22°C, resp	pectively.	Sky is likely to be mainly cloudy the coming week		
	idity varied from 55%		• <b>Relative Humidity</b> is likely to range from 59% to 93%.		
• Wind speed ra	anged from 2 to 4 kmp	h	• Wind speed may reach upto 2- 3 kmph		
			Wind direction will be southerly		
In-situ rain wat	er conservation throug	. U	l ex-situ moisture conservation through low cost water harvesting structure		
		like Ja	lkund should be carried out.		
			Field crops		
Main	Stage	Pest/	Agro-meteorological Advisories		
Crops		Diseases			
Jhum Paddy	Harvesting stage	Stored grain	Keeping neem leave and branches over the stored rice help in		
	rice weevi		controlling the pest		
TRC/WRC	RC/WRCStem elongationBrown spotaddystage		Monitor the field against brown spot, leaves show oval shaped foliar		
paaay			spots with yellow halo. Severely affected field presents a reddish appearance.		
Soybean	<i>n</i> Flowering stage -		Proper drainage should be maintained and timely earthing up should be		
Soybean Thowening Stage			carried out		
			Horticultural crop		
• Proper	weeding, earthing up s		and staking should be done for good production.		
Citrus		Trunk borer	To kill the trunk borer grubs, clean the bored holes of the infested trunk		
			with iron wire and insert a cotton swab soaked in petrol or kerosene and		
			plug with mud.		
Cucurbits	Harvesting stage	-	Avoid injuries during harvesting and handling.		

	Okra	Fruiting to	Spotted	• <i>Remove regularly the attacked fruits and bury deep in the soil.</i>				
	Okru	harvesting stage	bollworm	<ul> <li><i>Remove regularly the dilacked fulls and bury deep in the soll.</i></li> <li><i>Harvesting should be done timely</i></li> </ul>				
	<b>D</b> • • 1							
	Brinjal	Fruiting and	Shoot and	Damage is done by caterpillars by affecting the shoots and fruits which				
		harvesting stage	fruit borer	are rendered unfit for consumption. Dropping and wilting shoots indicate the presence of caterpillars in the				
				nodes of the stem and large holes in the fruits indicate exit holes of the				
				caterpillars,				
				Destroy affected fruits and dropping shoots, by burning and burying, and				
				clean culture to destroy the pupae.				
	Ginger /	Vegetative stage	Rhizome rot					
	turmeric			of the affected plants become yellow, water soaked appearance found at				
				the base of pseudo stem and rotting take place at the basal portion. The				
				affected rhizomes become soft, pulpy and plant easily collapse on				
				pressing.				
	<i>Livestock</i>							
	Water stagnation should be avoided in livestock shed to avoid mosquito breeding. Daily provide clean and cool drinking water to the animals							
	Poultry			lisease of poultry which is characterized by involvement of respiratory				
	system, drop in egg production, diarrhoea and mortality as high as 100% in severe cases.							
		Regular disinfection	of farm pren	nises and equipment with potassium permanganate (1: 1000), sodium				
		hydroxide (2%) or L	ysol (1: 5,000)	are useful in preventing this disease. Disease can be prevented effectively				
		by an integrated appr	oach of vaccina	ation, proper management and strict biosecurity.				
	Piggery		Give special attention to pregnant sows one week before farrowing by providing adequate space, feed, water					
14-4/1				pens should be disinfected 3-4 days before the expected date of farrowing				
XIII	and the sows should be placed in the farrowing pen after bedding it properly.							
				Fisheries				
भाक्रअनुप				nuddy water influx from the surrounding areas, the ponds may result in				
ICAR				gen. Stir the water with a bamboo pole as it will help in increasing the				
	oxygen and protect the fishes from suffocation							

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# **Integrated Agromet Advisory Service Bulletin from 15<sup>th</sup> to 19<sup>th</sup> Sept'18** Zunheboto District

Bulletin No:74/2018

Weather summary of the preceding week	Weather forecast valid upto 19 <sup>th</sup> Sept' 2018
<ul> <li>Light rain occurred the past week</li> <li>Maximum and minimum temperatures ranged 27°C to 29°C and 20°C to 22°C, respectively.</li> <li>Relative humidity varied from 67% to 92%.</li> <li>Wind speed ranged from 2 to 3 kmph</li> </ul>	<ul> <li>Probability of light rain the coming week.</li> <li>Max temp is likely to be 27°C - 28°C and the min temp 21°C to 22°C</li> <li>Sky is likely to be mainly cloudy the coming week</li> <li>Relative Humidity is likely to range from 58% to 97%.</li> <li>Wind speed may reach upto 2- 3 kmph Wind direction will be southeasterly</li> </ul>

Field crops						
Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories			
Jhum Paddy	Harvesting stage	Stored grain rice weevil	Keeping neem leave and branches over the stored rice help in controlling th pest			
TRC/WRC paddy	Milk development stage	Gundhi bug	Feeding causes empty or small grains during the milking stage. At the soj present stage, feeding will cause deformed or spotty grains. Do prope surveillance of the field.			
Soybean	Podding stage	-	Proper drainage should be maintained and timely earthing up should b carried out			
			Horticultural crop			
Proper	r weeding, earthing	up should be do	<i>ne and staking should be done for good production.</i>			
Citrus		Trunk borer	To kill the trunk borer grubs, clean the bored holes of the infested trunk wit iron wire and insert a cotton swab soaked in petrol or kerosene and plug wit mud.			
Cucurbits	Harvesting stage	-	Avoid injuries during harvesting and handling.			

	Okra	Fruiting to	Spotted	• <i>Remove regularly the attacked fruits and bury deep in the soil.</i>			
		harvesting stage	bollworm	• Harvesting should be done timely			
	Brinjal	Fruiting and	Shoot and	Damage is done by caterpillars by affecting the shoots and fruits which are			
	Ŭ	harvesting stage	fruit borer	rendered unfit for consumption.			
				Dropping and wilting shoots indicate the presence of caterpillars in the nodes			
				of the stem and large holes in the fruits indicate exit holes of the caterpillars,			
				Destroy affected fruits and dropping shoots, by burning and burying, and			
		NT A A		clean culture to destroy the pupae.			
	Ginger /	Vegetative stage	Rhizome rot	Farmers are advised to monitor the ginger against rhizome rot. Leaves of the			
	turmeric			affected plants become yellow, water soaked appearance found at the base of pseudo stem and rotting take place at the basal portion. The affected			
				rhizomes become soft, pulpy and plant easily collapse on pressing.			
				Livestock			
	Water stagnation should l			be avoided in livestock shed to avoid mosquito breeding			
		Water stag		clean and cool drinking water to the animals			
	Poultry	Ranikhet disease: A		lisease of poultry which is characterized by involvement of respiratory system,			
	drop in egg production, diarrhoea and mortality as high as 100% in severe cases.						
		Regular disinfection of farm premises and equipment with potassium permanganate (1: 1000), sodium h					
		(2%) or Lysol (1:	5,000) are us	eful in preventing this disease. Disease can be prevented effectively by an			
		integrated approach	n of vaccination	, proper management and strict biosecurity.			
	Piggery	Give special attent	ion to pregnant	sows one week before farrowing by providing adequate space, feed, water etc.			
			01	ns should be disinfected 3-4 days before the expected date of farrowing and the			
		sows should be pla	ced in the farro	wing pen after bedding it properly.			
				Fisheries			
		• Due to heavy rainfall and muddy water influx from the surrounding areas, the ponds may result in					
XILOUIX		reduction of dissolved oxygen. Stir the water with a bamboo pole as it will help in increasing the oxygen					
	and protect the fishes from suffocation						
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ICAR							

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# Integrated Agromet Advisory Service Bulletin from 15<sup>th</sup> to 19<sup>th</sup> Sept'18 Dimapur District

### Bulletin No:74/2018

Weather summary of the preceding week	Weather forecast valid upto 19 <sup>th</sup> Sept' 2018
Light rain occurred the past week	<ul> <li>Probability of light rain the coming week.</li> </ul>
	• Max temp is likely to be $31^{\circ}$ C - $32^{\circ}$ C and the min temp $24^{\circ}$ C to $25^{\circ}$ C
$31^{\circ}$ C to $34^{\circ}$ C and $23^{\circ}$ C to $25^{\circ}$ C, respectively.	Sky is likely to be mainly cloudy the coming week
• Relative humidity varied from 64% to 96%.	• <b>Relative Humidity</b> is likely to range from 70% to 95%.
• Wind speed ranged from 2 to 3 kmph	• Wind speed may reach upto 1- 2 kmph
	Wind direction will be mostly southeasterly

Field crops						
Main Crops	Stage	Pest/	Agro-meteorological Advisories			
		Diseases				
Jhum Paddy	Harvesting stage	Stored grain	Keeping neem leave and branches over the stored rice help in controlling the			
		rice weevil	pest			
TRC/WRC	Stem elongation	Blast	For rice blast management, destroy the infested residue, stubbles, grass and			
paddy	stage		weeds present in the bunds of the field as they act as a source for the infection.			
			Avoid excess use of nitrogen fertilizer			
Soybean	Podding stage	-	Proper drainage should be maintained and timely earthing up should be carried			
			out			
D			Horticultural crop			

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Proper	weeding, earthing up si	hould be done	and staking should be done for good production.		
Citrus		Trunk	To kill the trunk borer grubs, clean the bored holes of the infested trunk with iron		
		borer	wire and insert a cotton swab soaked in petrol or kerosene and plug with mud.		
Cucurbits	Harvesting stage	-	Avoid injuries during harvesting and handling.		
Okra	Fruiting to harvesting stage	Spotted bollworm	<ul> <li><i>Remove regularly the attacked fruits and bury deep in the soil.</i></li> <li><i>Harvesting should be done timely</i></li> </ul>		
Brinjal	Fruiting and harvesting stage	Shoot and fruit borer	Damage is done by caterpillars by affecting the shoots and fruits which are rendered unfit for consumption. Dropping and wilting shoots indicate the presence of caterpillars in the nodes of the stem and large holes in the fruits indicate exit holes of the caterpillars,		

	Ginger /	Vegetative stage	Rhizome	clean culture to destroy the pupae. Farmers are advised to monitor the ginger against rhizome rot. Leaves of the	
	turmeric		rot	affected plants become yellow, water soaked appearance found at the base of pseudo stem and rotting take place at the basal portion. The affected rhizomes become soft, pulpy and plant easily collapse on pressing.	
				Livestock	
		Water sta	•	d be avoided in livestock shed to avoid mosquito breeding. de clean and cool drinking water to the animals	
	Poultry	Ranikhet disease: An acute viral disease of poultry which is characterized by involvement of respiratory syst drop in egg production, diarrhoea and mortality as high as 100% in severe cases.			
		(2%) or Lysol	(1: 5,000) are	bremises and equipment with potassium permanganate (1: 1000), sodium hydroxide e useful in preventing this disease. Disease can be prevented effectively by an action, proper management and strict biosecurity.	
	Piggery	Give special atte The sows as well	<ul> <li>integrated approach of vaccination, proper management and strict biosecurity.</li> <li>Give special attention to pregnant sows one week before farrowing by providing adequate space, feed, water of The sows as well as farrowing pens should be disinfected 3-4 days before the expected date of farrowing and sows should be placed in the farrowing pen after bedding it properly.</li> </ul>		
				Fisheries	
HISP 3HIL ICAR		heavy rain can fertilizers, petrol	transport a eum products	on a pond's watershed can enter the pond and cause fish kills. Runoff following a variety of unwanted chemicals into the pond including pesticides, herbicides,	

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# Integrated Agromet Advisory Service Bulletin from 15<sup>th</sup> to 19<sup>th</sup> Sept'18 Kiphire District

### Bulletin No:74/2018

Weather summary of the preceding week	Weather forecast valid upto 19 <sup>th</sup> Sept' 2018
Moderate rain occurred the past week	Probability of moderate rain the coming week.
•Maximum and minimum temperatures ranged	• Max temp is likely to be $28^{\circ}$ C to $30^{\circ}$ C and the min temp $21^{\circ}$ C to $24^{\circ}$ C
$30^{\circ}$ C to $31^{\circ}$ C and $21^{\circ}$ C to $23^{\circ}$ C, respectively.	Sky is likely to be mainly cloudy the coming week
Relative humidity varied from 68% to 94%.	Relative Humidity is likely to range from 54% to 97%.
• Wind speed ranged from 1 to 2 kmph	• Wind speed may reach upto 2-4 kmph
	Wind direction will be mostly southerly
	a the second

In-situ rain water conservation through mulching and ex-situ moisture conservation through low cost water harvesting structure like Jalkund should be carried out.

Field crops					
Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories		
Jhum Paddy	Harvesting stage	Stored grain rice weevil	Keeping neem leave and branches over the stored rice help in controlling the pest		
TRC/WRC paddy	Stem elongation stage	Leaf folder To control the pest, mechanical methods, such as rope method (to dislo larvae) is advised. In this method, water is allowed to stand in the field cm and a rope is hold by two persons at two corners of the field and it is in such a way that it swayed the standing paddy crop. The larvae which the folded leafs fall in the water due to mechanical disturbances. Af bunds are opened at many places to drain out water. Insects are collect destroyed. This process should be repeated two to three times to get du result.			
Soybean	Podding stage	-	Proper drainage should be maintained and timely earthing up should be carried out		
<ul> <li>Horticultural crop</li> <li>Proper weeding, earthing up should be done and staking should be done for good production.</li> </ul>					
Citrus		Trunk borer	To kill the trunk borer grubs, clean the bored holes of the infested trunk with iron wire and insert a cotton swab soaked in petrol or kerosene and plug with mud.		
Cucurbits	Harvesting stage	-	Avoid injuries during harvesting and handling.		

	Okra	Fruiting to	Spotted	• <i>Remove regularly the attacked fruits and bury deep in the soil.</i>		
		harvesting stage	bollworm	<ul> <li>Harvesting should be done timely</li> </ul>		
	Brinjal	Fruiting and	Shoot and	Damage is done by caterpillars by affecting the shoots and fruits which are		
	Dingui	harvesting stage	fruit borer	rendered unfit for consumption.		
		6		Dropping and wilting shoots indicate the presence of caterpillars in the nodes of		
				the stem and large holes in the fruits indicate exit holes of the caterpillars,		
				Destroy affected fruits and dropping shoots, by burning and burying, and		
				clean culture to destroy the pupae.		
	Ginger /	Vegetative stage	Rhizome rot			
	turmeric			affected plants become yellow, water soaked appearance found at the base of		
				pseudo stem and rotting take place at the basal portion. The affected rhizomes		
				become soft, pulpy and plant easily collapse on pressing.		
	Livestock					
	Water stagnation should be avoided in livestock shed to avoid mosquito breeding.					
	Daily provide clean and cool drinking water to the animals					
	Poultry	Ranikhet disease: An acute viral disease of poultry which is characterized by involvement of respiratory system,				
		drop in egg production, diarrhoea and mortality as high as 100% in severe cases.				
		Regular disinfection of farm premises and equipment with potassium permanganate (1: 1000), sodium hydroxide				
		(2%) or Lysol (1: 5,000) are useful in preventing this disease. Disease can be prevented effectively by an integrated				
		approach of vaccination, proper management and strict biosecurity.				
	Piggery	Give special attention to pregnant sows one week before farrowing by providing adequate space, feed, water etc.				
			U 1	ens should be disinfected 3-4 days before the expected date of farrowing and the		
		sows should be place	ced in the farro	wing pen after bedding it properly.		
	Fisheries					
//		• Due to heavy rainfall and muddy water influx from the surrounding areas, the ponds may result in reduction				
Y		of dissolved oxygen. Stir the water with a bamboo pole as it will help in increasing the oxygen and protect				
/		the fishes fr	om suffocation			

भाकुअनुप ICAR

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5	Dr. Mahak Singh	Scientist	Animal Reproduction & Gynaecology	mahaksinghivri@gmail.com
	Dr. Azeze Seyie	Scientist	Spices, Plantation & Medicinal &	
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# **Integrated Agromet Advisory Service Bulletin from 15<sup>th</sup> to 19<sup>th</sup> Sept'18** Kohima District

### Bulletin No:74/2018

Weather summary of the preceding week	Weather forecast valid upto 19 <sup>th</sup> Sept' 2018
<ul> <li>Moderate rain occurred the past week</li> </ul>	Probability of moderate rain the coming week.
• Maximum and minimum temperatures ranged 26	• Max temp is likely to be $25^{\circ}$ C - $26^{\circ}$ C and the min temp $18^{\circ}$ C to $20^{\circ}$ C
$^{0}$ C to 28 $^{0}$ C and 19 $^{0}$ C to 21 $^{0}$ C, respectively.	Sky is likely to be mainly cloudy the coming week
Relative humidity varied from 58% to 97%.	• <b>Relative Humidity</b> is likely to range from 58% to 97%.
• Wind speed ranged from 2 to 3 kmph	• Wind speed may reach upto 2-3 kmph
	Wind direction will be mostly southeasterly
In situ rain water conservation through mulching on	d av situ moisture conservation through low cost water herwesting structure.

In-situ rain water conservation through mulching and ex-situ moisture conservation through low cost water harvesting structure like Jalkund should be carried out.

Field crops				
Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories	
Jhum Paddy	Harvesting stage	Stored grain rice weevil	Keeping neem leave and branches over the stored rice help in controlling the pest	
TRC/WRC paddy	Stem elongation stage	Brown spot	Monitor the field against brown spot, leaves show oval shaped folian spots with yellow halo. Severely affected field presents a reddish appearance.	
Soybean	Podding stage	-	<i>Proper drainage should be maintained and timely earthing up should be carried out</i>	
• Proper w	eeding, earthing up	should be done	Horticultural crop and staking should be done for good production.	
Citrus		Trunk borer	To kill the trunk borer grubs, clean the bored holes of the infested trunk with iron wire and insert a cotton swab soaked in petrol or kerosene and plug with mud.	
Cucurbits	Harvesting stage	-	Avoid injuries during harvesting and handling.	
Okra	Fruiting to harvesting stage	Spotted bollworm	• <i>Remove regularly the attacked fruits and bury deep in the soil.</i>	

			Harvesting should be done timely	
harvesting stagefruit borerare rendered unfit for Dropping and wiltin nodes of the stem a caterpillars, Destroy affected fruit clean culture to destGinger / turmericVegetative stage Image and the stage Rhizome rotRhizome rot Farmers are advised the affected plants b base of pseudo stem affected rhizomes			Damage is done by caterpillars by affecting the shoots and fruits which are rendered unfit for consumption. Dropping and wilting shoots indicate the presence of caterpillars in the nodes of the stem and large holes in the fruits indicate exit holes of the caterpillars, Destroy affected fruits and dropping shoots, by burning and burying, and clean culture to destroy the pupae.	
		Farmers are advised to monitor the ginger against rhizome rot. Leaves of the affected plants become yellow, water soaked appearance found at the base of pseudo stem and rotting take place at the basal portion. The affected rhizomes become soft, pulpy and plant easily collapse on pressing.		
Khasi Mandarin	New flush		During the month of August, Bordeaux paste should be applied on the tree trunk (upto 60cm height from ground level).	
<i>Livestock</i> Water stagnation should be avoided in livestock shed to avoid mosquito breeding. Daily provide clean and cool drinking water to the animals				
Poultry				
Piggery	etc. The sows as w	Give special attention to pregnant sows one week before farrowing by providing adequate space, feed, water etc. The sows as well as farrowing pens should be disinfected 3-4 days before the expected date of farrowing and the sows should be placed in the farrowing pen after bedding it properly.		
Fisheries				
	• Due to heavy rainfall and muddy water influx from the surrounding areas, the ponds may result in reduction of dissolved oxygen. Stir the water with a bamboo pole as it will help in increasing the oxygen and protect the fishes from suffocation			

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# **Integrated Agromet Advisory Service Bulletin from 15<sup>th</sup> to 19<sup>th</sup> Sept'18** Longleng District

Bulletin No·74/2018

Weather summary of the preceding week	Weather forecast valid upto 19 <sup>th</sup> Sept' 2018
<ul> <li>Light rain occurred the past week</li> <li>Maximum and minimum temperatures ranged 29°C to 32°C and 20°C to 23°C, respectively.</li> <li>Relative humidity varied from 65% to 92%.</li> <li>Wind speed ranged from 2 to 4 kmph</li> </ul>	<ul> <li>Probability of light rain the coming week</li> <li>Max temp is likely to be 28°C - 30°C and the min temp 21°C to 24°C</li> <li>Sky is likely to be mainly cloudy the coming week</li> <li>Relative Humidity is likely to range from 52% to 94%.</li> <li>Wind speed may reach upto 1- 2 kmph Wind direction will be mostly southeasterly</li> </ul>

			Field crops	
Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories	
Jhum Paddy	Harvesting stage	Stored grain rice weevil	Keeping neem leave and branches over the stored rice help in controlling the pest	
TRC/WRC paddy	Stem elongation stage	Leaf folder	To control the pest, mechanical methods, such as rope method (to dislodge the larvae) is advised. In this method, water is allowed to stand in the field up to 2 cm and a rope is hold by two persons at two corners of the field and it is moved in such a way that it swayed the standing paddy crop. The larvae which feed on the folded leafs fall in the water due to mechanical disturbances. After that bunds are opened at many places to drain out water. Insects are collected and destroyed. This process should be repeated two to three times to get desirable result.	
Soybean	Podding stage	-	Proper drainage should be maintained and timely earthing up should be carried out	
<ul> <li>Horticultural crop</li> <li>Proper weeding, earthing up should be done and staking should be done for good production.</li> </ul>				
Citrus			To kill the trunk borer grubs, clean the bored holes of the infested trunk with iron wire and insert a cotton swab soaked in petrol or kerosene and plug with mud.	
Cucurbits	Harvesting stage	-	Avoid injuries during harvesting and handling.	

	Okra	Fruiting to	Spotted	• <i>Remove regularly the attacked fruits and bury deep in the soil.</i>	
		harvesting stage	bollworm	• Harvesting should be done timely	
	Brinjal	Fruiting and harvesting stage	Shoot and fruit borer	Damage is done by caterpillars by affecting the shoots and fruits which are rendered unfit for consumption. Dropping and wilting shoots indicate the presence of caterpillars in th nodes of the stem and large holes in the fruits indicate exit holes of th caterpillars, Destroy affected fruits and dropping shoots, by burning and burying, and clean culture to destroy the pupae.	
	Ginger / turmeric	Vegetative stage	Rhizome rot	Farmers are advised to monitor the ginger against rhizome rot. Leaves of the affected plants become yellow, water soaked appearance found at the base of pseudo stem and rotting take place at the basal portion. The affected rhizomes become soft, pulpy and plant easily collapse on pressing.	
	Livestock				
	Water stagnation should be avoided in livestock shed to avoid mosquito breeding Daily provide clean and cool drinking water to the animals				
	PoultryRanikhet disease: An acute viral disease of poultry which is characterized by involvement of respirator system, drop in egg production, diarrhoea and mortality as high as 100% in severe cases. Regular disinfection of farm premises and equipment with potassium permanganate (1: 1000), sodiu hydroxide (2%) or Lysol (1: 5,000) are useful in preventing this disease. Disease can be prevented effective by an integrated approach of vaccination, proper management and strict biosecurity.			rrhoea and mortality as high as 100% in severe cases. mises and equipment with potassium permanganate (1: 1000), sodium ) are useful in preventing this disease. Disease can be prevented effectively	
	Piggery	Give special attention to pregnant sows one week before farrowing by providing adequate space, feed, water etc. The sows as well as farrowing pens should be disinfected 3-4 days before the expected date of farrowing and the sows should be placed in the farrowing pen after bedding it properly.			
				Fisheries	
8		• Due to heavy rainfall and muddy water influx from the surrounding areas, the ponds may result in reduction of dissolved oxygen. Stir the water with a bamboo pole as it will help in increasing the oxygen and protect the fishes from suffocation			

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# **Integrated Agromet Advisory Service Bulletin from 15<sup>th</sup> to 19<sup>th</sup> Sept'18** Mokokchung District

### Bulletin No:74/2018

Fruiting to

harvesting stage

Fruiting

Spotted

bollworm

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Weather summary of the preceding week	Weather forecast valid upto 19 <sup>th</sup> Sept' 2018
• Light rain occurred the past week	Probability of light rain the coming week.
• Maximum and minimum temperatures ranged	• Max temp is likely to be $28^{\circ}$ C - $302^{\circ}$ C and the min temp $21^{\circ}$ C to $23^{\circ}$ C
$29^{\circ}$ C to $30^{\circ}$ C and $20^{\circ}$ C to $22^{\circ}$ C, respectively.	Sky is likely to be partly cloudy the coming week
Relative humidity varied from 59% to 94%.	Relative Humidity is likely to range from 55% to 94%.
Wind speed ranged from 2 to 4 kmph	• Wind speed may reach upto 1- 2 kmph
	Wind direction will be mostly southeasterly

Field crops				
MainStagePest/CropsDiseases			Agro-meteorological Advisories	
shedding, scat			Harvesting is to be done in optimum time, otherwise, there will be loss of grain shedding, scattering, lodging and also damaged by birds, over maturity and lodging	
TRC/WRC paddy	Milk development stage	Gundhi bug	Feeding causes empty or small grains during the milking stage. At the soft present stage, feeding will cause deformed or spotty grains. Do proper surveillance of the field.	
Soybean	Podding stage	-	Proper drainage should be maintained and timely earthing up should be carried out	
			Horticultural crop	
• Proper	weeding, earthing up	should be done	and staking should be done for good production.	
Citrus		Trunk borer	To kill the trunk borer grubs, clean the bored holes of the infested trunk with iron wire and insert a cotton swab soaked in petrol or kerosene and plug with mud.	
Cucurbits	Harvesting stage	-	Avoid injuries during harvesting and handling.	

Okra

Brinjal

		0
ig and	Shoot and	Damage is done by caterpillars by affecting the shoots and fruits which are

Harvesting should be done timely

Remove regularly the attacked fruits and bury deep in the soil.

		harvesting stage	fruit borer	rendered unfit for consumption. Dropping and wilting shoots indicate the presence of caterpillars in the nodes of the stem and large holes in the fruits indicate exit holes of the caterpillars, Destroy affected fruits and dropping shoots, by burning and burying, and		
	Ginger / turmeric	Vegetative stage	Rhizome rot	clean culture to destroy the pupae. Farmers are advised to monitor the ginger against rhizome rot. Leaves of the affected plants become yellow, water soaked appearance found at the base of pseudo stem and rotting take place at the basal portion. The affected rhizomes become soft, pulpy and plant easily collapse on pressing.		
	Livestock           Water stagnation should be avoided in livestock shed to avoid mosquito breeding.           Daily provide clean and cool drinking water to the animals					
	Poultry	<ul> <li>Ranikhet disease: An acute viral disease of poultry which is characterized by involvement of respiratory system, drop in egg production, diarrhoea and mortality as high as 100% in severe cases.</li> <li>Regular disinfection of farm premises and equipment with potassium permanganate (1: 1000), sodium hydroxide (2%) or Lysol (1: 5,000) are useful in preventing this disease. Disease can be prevented effectively by an integrated approach of vaccination, proper management and strict biosecurity.</li> </ul>				
<b>Piggery</b> Give special attention to pregnant sows one week before farrowing by providing a sows as well as farrowing pens should be disinfected 3-4 days before the expect should be placed in the farrowing pen after bedding it properly.		ould be disinfected 3-4 days before the expected date of farrowing and the sows				
	Fisheries					
B		• Due to heavy rainfall and muddy water influx from the surrounding areas, the ponds may result in reduction of dissolved oxygen. Stir the water with a bamboo pole as it will help in increasing the oxygen and protect the fishes from suffocation				

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# Integrated Agromet Advisory Service Bulletin from 15<sup>th</sup> to 19<sup>th</sup> Sept'18 Mon District

### Bulletin No:74/2018

Weather forecast valid upto 19 <sup>th</sup> Sept' 2018
<ul> <li>Probability of light rain the coming week.</li> </ul>
• Max temp is likely to be $27^{\circ}$ C - $28^{\circ}$ C and the min temp $21^{\circ}$ C to $22^{\circ}$ C
Sky is likely to be partly cloudy the coming week
Relative Humidity is likely to range from 52% to 92%.
Wind speed may reach upto 2- 3 kmph
Wind direction will be mostly southeasterly

Field crops			
Main	Stage	Pest/	Agro-meteorological Advisories
Crops		Diseases	
Jhum Paddy	Harvesting	Stored grain	Keeping neem leave and branches over the stored rice help in controlling the
	stage	rice weevil	pest
TRC/WRC	Milk	Gundhi bug	Feeding causes empty or small grains during the milking stage. At the soft
paddy	development		present stage, feeding will cause deformed or spotty grains. Do proper
	stage		surveillance of the field.
Soybean	Podding stage	-	Proper drainage should be maintained and timely earthing up should be carried out

Horticultural crop					
Proper weeding, earthing up should be done and staking should be done for good production.					
Citrus		Trunk borer	To kill the trunk borer grubs, clean the bored holes of the infested trunk with iron wire and insert a cotton swab soaked in petrol or kerosene and plug with mud.		
Cucurbits	Harvesting stage	-	Avoid injuries during harvesting and handling.		
Okra	Fruiting to harvesting stage	Spotted bollworm	<ul> <li><i>Remove regularly the attacked fruits and bury deep in the soil.</i></li> <li><i>Harvesting should be done timely</i></li> </ul>		
Brinjal	Fruiting and harvesting stage	Shoot and fruit borer	Damage is done by caterpillars by affecting the shoots and fruits which are rendered unfit for consumption. Dropping and wilting shoots indicate the presence of caterpillars in the nodes of the stem and large holes in the fruits indicate exit holes of the caterpillars, Destroy affected fruits and dropping shoots, by burning and burying, and clean culture to destroy the pupae.		
Ginger / turmeric	Vegetative stage	Rhizome rot	Farmers are advised to monitor the ginger against rhizome rot. Leaves of the affected plants become yellow, water soaked appearance found at the base of pseudo stem and rotting take place at the basal portion. The affected rhizomes become soft, pulpy and plant easily collapse on pressing.		
			Livestock		
			t of human and animal diseases. Vaccination of animals should be done against out- king water to the animals		
Poultry	egg production, o	Ranikhet disease: An acute viral disease of poultry which is characterized by involvement of respiratory system, drop in egg production, diarrhoea and mortality as high as 100% in severe cases. Regular disinfection of farm premises and equipment with potassium permanganate (1: 1000), sodium hydroxide (2%) or			
	Lysol (1: 5,000)	Lysol (1: 5,000) are useful in preventing this disease. Disease can be prevented effectively by an integrated approach of vaccination, proper management and strict biosecurity.			
Piggery	as well as farrow	Give special attention to pregnant sows one week before farrowing by providing adequate space, feed, water etc. The sows as well as farrowing pens should be disinfected 3-4 days before the expected date of farrowing and the sows should be placed in the farrowing pen after bedding it properly.			
			Fisheries		
HIEP3H-JII HIEP3H-JII HICAR	dissolved	• Due to heavy rainfall and muddy water influx from the surrounding areas, the ponds may result in reduction of dissolved oxygen. Stir the water with a bamboo pole as it will help in increasing the oxygen and protect the fishes from suffocation			

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