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

Integrated Agromet Advisory Service Bulletin from 12th to 16th Sept'18

Longleng District

Bulletin No:73/2018

Weather summary of the preceding week	*Weather forecast valid upto 16th Sept' 2018*
▪ Light rain occurred the past week ▪ Maximum and minimum temperatures ranged 29^{0}C to 32^{0}C and 20^{0}C to 23^{0}C, respectively. ▪ Relative humidity varied from 65% to 95%. ▪ Wind speed ranged from 2 to 4 kmph	▪ Probability of light rain the coming week ▪ **Max temp** is likely to be 27^{0}C - 32^{0}C and the **min temp** 21^{0}C to 24^{0}C ▪ **Sky is likely to be mainly cloudy** the coming week ▪ **Relative Humidity** is likely to range from 53% to 97%. ▪ **Wind speed** may reach upto 2- 4 kmph **Wind direction** will be mostly easterly

Field crops

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
Jhum Paddy	Ripening stage		*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	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*

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	• *Remove regularly the attacked fruits and bury deep in the soil.* • *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 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	*Proper drainage and sanitation should be maintained.* *Timely earthing up should be carried out.*
	Livestock Water stagnation should be avoided in livestock shed to avoid mosquito breeding Daily provide clean and cool drinking water to the animals			
	Poultry	• High humidity is favourable for occurrence of **coccidiodial disease** in poultry, provide anti-coccidial drugs		
	Piggery	• Precaution should be taken against **Japanese encephalitis, a mosquito borne disease**. Avoid stagnant water in and around the sty, maintain proper hygienic condition		
	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		

SCIENTIFIC EXPERT COMMITTEE

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 12th to 16th Sept'18
Mokokchung District

Bulletin No:73/2018

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

Weather summary of the preceding week	*Weather forecast valid upto 16th Sept' 2018*
▪ Light rain occurred the past week ▪ Maximum and minimum temperatures ranged 29^{0}C to 31^{0}C and 20^{0}C to 22^{0}C, respectively. ▪ Relative humidity varied from 59% to 94%. ▪ Wind speed ranged from 2 to 4 kmph	▪ Probability of light rain the coming week. ▪ **Max temp** is likely to be 27^{0}C - 32^{0}C and the **min temp** 21^{0}C to 24^{0}C ▪ **Sky is likely to be partly cloudy** the coming week ▪ **Relative Humidity** is likely to range from 75% to 95%. ▪ **Wind speed** may reach upto 2- 4 kmph **Wind direction** will be mostly easterly

Field crops

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
Jhum Paddy	Harvesting stage		*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	Fruiting to harvesting stage	Spotted bollworm	• *Remove regularly the attacked fruits and bury deep in the soil.* • *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 / turmeric	Vegetative stage	Rhizome rot	*Proper drainage and sanitation should be maintained.* *Timely earthing up should be carried out.*
Livestock Water stagnation should be avoided in livestock shed to avoid mosquito breeding. Daily provide clean and cool drinking water to the animals			
Poultry	• High humidity is favourable for occurrence of **coccidiodial disease** in poultry, provide anti-coccidial drugs		
Piggery	• Precaution should be taken against **Japanese encephalitis, a mosquito borne disease**. Avoid stagnant water in and around the sty, maintain proper hygienic condition		
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 12th to 16th Sept'18 Mon District

Bulletin No:73/2018

ICAR RESEARCH COMPLEX FOR NEH REGION
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NAGALAND CENTER, JHARNAPANI,MEDZIPHEMA

Weather summary of the preceding week	*Weather forecast valid upto 16th Sept' 2018*
▪ Moderate rain occurred the past week ▪ Maximum and minimum temperatures ranged 29^0C to 31^0C and 21^0C to 24^0C, respectively. ▪ Relative humidity varied from 65% to 90% ▪ Wind speed ranged from 2 to 3 kmph	▪ Probability of moderate rain the coming week. ▪ **Max temp** is likely to be 32^0C - 27^0C and the **min temp** 20^0C to 24^0C ▪ **Sky is likely to be partly cloudy** the coming week ▪ **Relative Humidity** is likely to range from 54% to 96%. ▪ **Wind speed** may reach upto 2- 4 kmph **Wind direction** will be mostly southeasterly

Field crops

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
Jhum Paddy	Harvesting stage		*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	Fruiting to harvesting stage	Spotted bollworm	• *Remove regularly the attacked fruits and bury deep in the soil.* • *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 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	*Proper drainage and sanitation should be maintained.* *Timely earthing up should be carried out.*
Livestock Flood affected areas generally experience out-break of human and animal diseases. Vaccination of animals should be done against out-break of major diseases. Provide clean and cool drinking water to the animals			
Poultry	• High humidity is favourable for occurrence of **coccidiodial disease** in poultry, provide anti-coccidial drugs		
Piggery	• Precaution should be taken against **Japanese encephalitis, a mosquito borne disease**. Avoid stagnant water in and around the sty, maintain proper hygienic condition		
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 12th to 16th Sept'18

Peren District

Bulletin No:73/2018

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

Weather summary of the preceding week	*Weather forecast valid upto 16th Sept' 2018*
▪ Light rain occurred the past week ▪ Maximum and minimum temperatures ranged 30^0C to 32^0C and 23^0C to 24^0C, respectively. ▪ Relative humidity varied from 62% to 94%. ▪ Wind speed ranged from 5 to 6 kmph	▪ Probability of light rain the coming week. ▪ **Max temp** is likely to be 26^0C - 32^0C and the **min temp** 20^0C to 24^0C ▪ **Sky is likely to be mainly cloudy** the coming week ▪ **Relative Humidity** is likely to range from 61% to 97%. ▪ **Wind speed** may reach upto 3-6 kmph **Wind direction** will be mostly southerly

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	Milk development stage	Gundhi bug	*Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the bug. Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated*
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*

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	• *Remove regularly the attacked fruits and bury deep in the soil.* • *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 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	*Proper drainage and sanitation should be maintained.* *Timely earthing up should be carried out.*
	Livestock Water stagnation should be avoided in livestock shed to avoid mosquito breeding. Daily provide clean and cool drinking water to the animals			
	Poultry	• High humidity is favourable for occurrence of **coccidiodial disease** in poultry, provide anti-coccidial drugs		
	Piggery	• Precaution should be taken against **Japanese encephalitis, a mosquito borne disease**. Avoid stagnant water in and around the sty, maintain proper hygienic condition		
	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 12th to 16th Sept'18
Phek District

Bulletin No:73/2018

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

Weather summary of the preceding week	*Weather forecast valid upto 16th Sept' 2018*
▪ Moderate rain occurred the past week ▪ Maximum and minimum temperatures ranged 27^0C to 31^0C and 20^0C to 24^0C, respectively. ▪ Relative humidity varied from 52% to 95%. ▪ Wind speed ranged from 2 to 3 kmph	▪ Probability of moderate rain the coming week. ▪ **Max temp** is likely to be 23^0C - 28^0C and the **min temp** 18^0C to 20^0C ▪ **Sky is likely to be mainly cloudy** the coming week ▪ **Relative Humidity** is likely to range from 59% to 94%. ▪ **Wind speed** may reach upto 2-3 kmph **Wind direction** will be mostly southeasterly

Field crops

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
Jhum Paddy	Ripening stage		*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	Fruiting to harvesting stage	Spotted bollworm	• *Remove regularly the attacked fruits and bury deep in the soil.* • *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 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	*Proper drainage and sanitation should be maintained.* *Timely earthing up should be carried out.*
	Livestock Water stagnation should be avoided in livestock shed to avoid mosquito breeding. Daily provide clean and cool drinking water to the animals			
	Poultry	• High humidity is favourable for occurrence of **coccidiodial disease** in poultry, provide anti-coccidial drugs		
	Piggery	• Precaution should be taken against **Japanese encephalitis, a mosquito borne disease**. Avoid stagnant water in and around the sty, maintain proper hygienic condition		
	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		

SCIENTIFIC EXPERT COMMITTEE

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Integrated Agromet Advisory Service Bulletin from 12th to 16th Sept'18
Tuensang District

Bulletin No:73/2018

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

Weather summary of the preceding week	*Weather forecast valid upto 16th Sept' 2018*
▪ Moderate rain occurred the past week ▪ Maximum and minimum temperatures ranged 28^0C to 30^0C and 20^0C to 21^0C, respectively. ▪ Relative humidity varied from 64% to 92%. ▪ Wind speed ranged from 2 to 3 kmph	▪ Probability of moderate rain the coming week. ▪ **Max temp** is likely to be 22^0C - 24^0C and the **min temp** 16^0C to 19^0C ▪ **Sky is likely to be mainly cloudy** the coming week ▪ **Relative Humidity** is likely to range from 68% to 95%. ▪ **Wind speed** may reach upto 2-3 kmph ▪ **Wind direction** will be mostly southeasterly

Field crops

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
Jhum Paddy	Harvesting stage		*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	Fruiting to harvesting stage	Spotted bollworm	• *Remove regularly the attacked fruits and bury deep in the soil.* • *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 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	*Proper drainage and sanitation should be maintained.* *Timely earthing up should be carried out.*
	Livestock Water stagnation should be avoided in livestock shed to avoid mosquito breeding. Daily provide clean and cool drinking water to the animals			
	Poultry	• High humidity is favourable for occurrence of **coccidiodial disease** in poultry, provide anti-coccidial drugs		
	Piggery	• Precaution should be taken against **Japanese encephalitis, a mosquito borne disease**. Avoid stagnant water in and around the sty, maintain proper hygienic condition		
	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 8th to 12th Sept'18
Wokha District

Bulletin No:72/2018

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

Weather summary of the preceding week	*Weather forecast valid upto 12th Sept' 2018*
▪ Light rain occurred the past week ▪ Maximum and minimum temperatures ranged 29^0C to 31^0C and 20^0C to 22^0C, respectively. ▪ Relative humidity varied from 55% to 91%. ▪ Wind speed ranged from 2 to 4 kmph	▪ Probability of light rain the coming week. ▪ **Max temp** is likely to be 26^0C - 32^0C and the **min temp** 20^0C to 24^0C ▪ **Sky is likely to be mainly cloudy** the coming week ▪ **Relative Humidity** is likely to range from 64% to 97%. ▪ **Wind speed** may reach upto 3- 6 kmph **Wind direction** will be southeasterly

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	Milk development stage	Gundhi bug	*Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the bug. Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated*
TRC/WRC paddy	Stem elongation stage	Brown spot	*Monitor the field against brown spot, leaves show oval shaped foliar spots with yellow halo. Severely affected field presents a reddish appearance.*
Soybean	Flowering 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	• *Remove regularly the attacked fruits and bury deep in the soil.* • *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 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	*Proper drainage and sanitation should be maintained.* *Timely earthing up should be carried out.*
	Livestock Water stagnation should be avoided in livestock shed to avoid mosquito breeding. Daily provide clean and cool drinking water to the animals			
	Poultry	• Fungal contamination of feed during rainy season is a common problem. Avoid transport of feed during rainy season and feed must be stored in dry place. Care must be taken to fill all the ditches in the vicinity of the poultry house which act as a breeding place for insects and mosquitoes.		
	Piggery	• Precaution should be taken against **Japanese encephalitis, a mosquito borne disease**. Avoid stagnant water in and around the sty, maintain proper hygienic condition		
	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		

SCIENTIFIC EXPERT COMMITTEE

Sl.no	Name	Designation	Department	
1	Dr.D.J. Rajkhowa	Principle Scientist	Agronomy	djrajkhowa@gmail.com
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ICAR

Integrated Agromet Advisory Service Bulletin from 12th to 16th Sept'18

Zunheboto District

Bulletin No:73/2018

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

Weather summary of the preceding week	*Weather forecast valid upto 16th Sept' 2018*
▪ Moderate rain occurred the past week ▪ Maximum and minimum temperatures ranged 27^0C to 30^0C and 20^0C to 22^0C, respectively. ▪ Relative humidity varied from 67% to 92%. ▪ Wind speed ranged from 2 to 3 kmph	▪ Probability of light rain the coming week. ▪ **Max temp** is likely to be 26^0C - 30^0C and the **min temp** 20^0C to 24^0C ▪ **Sky is likely to be mainly cloudy** the coming week ▪ **Relative Humidity** is likely to range from 64% to 97%. ▪ **Wind speed** may reach upto 2- 4 kmph **Wind direction** will be southeasterly

Field crops

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
Jhum Paddy	Harvesting stage		*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	Fruiting to harvesting stage	Spotted bollworm	• *Remove regularly the attacked fruits and bury deep in the soil.* • *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 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	*Proper drainage and sanitation should be maintained.* *Timely earthing up should be carried out.*
	Livestock Water stagnation should be avoided in livestock shed to avoid mosquito breeding Daily provide clean and cool drinking water to the animals			
	Poultry	• High humidity is favourable for occurrence of **coccidiodial disease** in poultry, provide anti-coccidial drugs		
	Piggery	• Precaution should be taken against **Japanese encephalitis, a mosquito borne disease**. Avoid stagnant water in and around the sty, maintain proper hygienic condition		
	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 12th to 16th Sept'18
Dimapur District

Bulletin No:73/2018

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

Weather summary of the preceding week	*Weather forecast valid upto 16th Sept' 2018*
▪ Light rain occurred the past week ▪ Maximum and minimum temperatures ranged 32^{0}C to 34^{0}C and 24^{0}C to 25^{0}C, respectively. ▪ Relative humidity varied from 60% to 95%. ▪ Wind speed ranged from 2 to 3 kmph	▪ Probability of moderate rain the coming week. ▪ **Max temp** is likely to be 31^{0}C - 32^{0}C and the **min temp** 24^{0}C to 25^{0}C ▪ **Sky is likely to be mainly cloudy** the coming week ▪ **Relative Humidity** is likely to range from 70% to 95%. ▪ **Wind speed** may reach upto 1- 2 kmph **Wind direction** will be mostly southeasterly

Field crops

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
Jhum Paddy	Milk development stage	Gundhi bug	*Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the bug.* *Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated*
TRC/WRC paddy	Stem elongation stage	*Blast*	*For rice blast management, destroy the infested residue, stubbles, grass and 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*

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	• *Remove regularly the attacked fruits and bury deep in the soil.* • *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 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	*Proper drainage and sanitation should be maintained.* *Timely earthing up should be carried out.*
	Livestock Water stagnation should be avoided in livestock shed to avoid mosquito breeding. Daily provide clean and cool drinking water to the animals			
	Poultry	• High humidity is favourable for occurrence of **coccidiodial disease** in poultry, provide anti-coccidial drugs		
	Piggery	• Precaution should be taken against **Japanese encephalitis, a mosquito borne disease**. Avoid stagnant water in and around the sty, maintain proper hygienic condition		
	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 12th to 16th Sept'18

Kiphire District

Bulletin No:73/2018

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

Weather summary of the preceding week	*Weather forecast valid upto 16th Sept' 2018*
▪ Moderate rain occurred the past week ▪ Maximum and minimum temperatures ranged 30^0C to 31^0C and 21^0C to 23^0C, respectively. ▪ Relative humidity varied from 68% to 94%. ▪ Wind speed ranged from 1 to 2 kmph	▪ Probability of moderate rain the coming week. ▪ **Max temp** is likely to be 27^0C to 32^0C and the **min temp** 21^0C to 24^0C ▪ **Sky is likely to be mainly cloudy** the coming week ▪ **Relative Humidity** is likely to range from 65% to 95%. ▪ **Wind speed** may reach upto 2-3 kmph **Wind direction** will be mostly southeasterly

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	Milk development stage	Gundhi bug	*Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the bug.* *Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated*
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*

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	• *Remove regularly the attacked fruits and bury deep in the soil.* • *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 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	*Proper drainage and sanitation should be maintained.* *Timely earthing up should be carried out.*
	Livestock Water stagnation should be avoided in livestock shed to avoid mosquito breeding. Daily provide clean and cool drinking water to the animals			
	Poultry	• High humidity is favourable for occurrence of **coccidiodial disease** in poultry, provide anti-coccidial drugs		
	Piggery	• Precaution should be taken against **Japanese encephalitis, a mosquito borne disease**. Avoid stagnant water in and around the sty, maintain proper hygienic condition		
	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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NAGALAND CENTER, JHARNAPANI. MEDZIPHEMA

Integrated Agromet Advisory Service Bulletin from 12th to 16th Sept'18

Kohima District

Bulletin No:73/2018

Weather summary of the preceding week	*Weather forecast valid upto 16th Sept' 2018*
▪ Moderate rain occurred the past week ▪ Maximum and minimum temperatures ranged 26 ^{0}C to 28^{0}C and 19^{0}C to 21^{0}C, respectively. ▪ Relative humidity varied from 58% to 97%. ▪ Wind speed ranged from 2 to 3 kmph	▪ Probability of moderate rain the coming week. ▪ **Max temp** is likely to be 24^{0}C - 28^{0}C and the **min temp** 18^{0}C to 20^{0}C ▪ **Sky is likely to be mainly cloudy** the coming week ▪ **Relative Humidity** is likely to range from 68% to 95%. ▪ **Wind speed** may reach upto 2-3 kmph **Wind direction** will be mostly southeasterly

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	Milk development stage	Gundhi bug	*Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the bug. Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated*
TRC/WRC paddy	Stem elongation stage	Brown spot	*Monitor the field against brown spot, leaves show oval shaped foliar spots with yellow halo. Severely affected field presents a reddish appearance.*
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	• *Remove regularly the attacked fruits and bury deep in the soil.* • *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 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	*Proper drainage and sanitation should be maintained.* *Timely earthing up should be carried out.*
	Khasi Mandarin	New flush		*During the month of August, Bordeaux paste should be applied on the tree trunk (upto 60cm height from ground level).*
	Livestock Water stagnation should be avoided in livestock shed to avoid mosquito breeding. Daily provide clean and cool drinking water to the animals			
	Poultry	• High humidity is favourable for occurrence of **coccidiodial disease** in poultry, provide anti-coccidial drugs		
	Piggery	• Precaution should be taken against **Japanese encephalitis, a mosquito borne disease**. Avoid stagnant water in and around the sty, maintain proper hygienic condition		
	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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