



**GRAMIN KRISHI MAUSAM SEWA**  
**ICAR RESEARCH COMPLEX FOR NEH REGION**  
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**Dimapur, Nagaland**

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Date: 13.08.19		District: Zunheboto		Bulletin No: 64/2019	
Weather of preceding week			Weather forecast valid upto 18.08.2019		
<ul style="list-style-type: none"><li>Moderate rain occurred the past week</li><li>Max and min temperatures ranged 27<sup>0</sup>C to 28<sup>0</sup>C and 17<sup>0</sup>C to 19<sup>0</sup>C, respectively.</li><li>Relative humidity varied from 69% to 95%.</li><li>Wind speed ranged from 2 to 3 kmph</li></ul>			<ul style="list-style-type: none"><li>Probability of moderate to heavy rain</li><li><b>Max temp</b> is likely to be 29<sup>0</sup>C- 31<sup>0</sup>C and <b>min temp</b> 18<sup>0</sup>C to 19<sup>0</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 84% to 95%.</li><li><b>Wind speed</b> may reach upto 2-3 kmph</li><li><b>Wind may blow from south easterly direction</b></li></ul> <b>Weekly cumulative Rainfall:</b> 40mm		
WEATHER FORECAST BASED AGROMET ADVISORIES					
Main crop	Growth Stage	Pest/Disease	Weather based Agro-Advisories		
Jhum paddy	Inflorescence stage	Gundhi bug	Trap adult bugs using a light trap, sweep net and dirty trap of cattle urine/dung and then destroy the traps by suitable means. Keep on hanging the cattle urine soaked gunny bag or cow dung wrapped cloth in the field, just at the height of the crop to attract the bugs.		
TRC/WRC paddy	Tillering stage	Leaf folder	Keep the bunds clean by trimming them and remove the grassy weeds. Clipping of the affected leaves. Use of rope to dislodge the leaf feeding larvae of leaf folders. Open up the leaf folds with the help of a thorny twig.		
Soybean	Vegetative stage		Field scouting should be undertaken to keep a close watch on the appearance of insect pest, disease.		
Brinjal	Fruiting stage	Stem borer	Infested plant withers up and presents a stunted growth due to the feeding activities of the caterpillar on the tissue of the stem. Remove and destroy the affected parts of the plants and pruning should be done		
Ginger	Vegetative stage	Shoot borer	Start monitoring of shoot borer. Main symptom is the presence of a borehole on the pseudostem through which frass is extruded and the withered and yellow central shoot.		
Chilli	Flowering to fruiting stage	Fruit borer	Install pheromone traps with replacement of lures once in 15 days		
Colocasia			Timely weeding and earthing up should be done to prevent soil based pupation.		
Rice bean	Vegetative stage		It is susceptible to water logging, therefor proper drainage should be maintained for healthy growth and devlopment		
Poultry	<ul style="list-style-type: none"><li>Provide vitamins along with their feed as vitamin deficiencies can cause birds to start feather picking which becomes a problem</li></ul>				
Piggery	<ul style="list-style-type: none"><li>Provide plenty of clean drinking water. Keep the pig sty clean, dry and follow regular de-worming to all the pigs</li></ul>				
Fishery	In those district where it is raining consistently, fish farmers need to be vigilant; check the pH of the pond regularly as rain cause depletion in pH, thereby causing mortality of the fish.				



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Date: 13.08.19		District: Dimapur		Bulletin No: 64/2019	
Weather of preceding week			Weather forecast valid upto 18.08.2019		
<ul style="list-style-type: none"><li>▪ Light rain occurred the past week</li><li>▪ Max and min temperatures ranged 32<sup>0</sup>C to 35<sup>0</sup>C and 25<sup>0</sup>C to 26<sup>0</sup>C, respectively.</li><li>▪ Relative humidity varied from 50% to 95%.</li><li>▪ Wind speed ranged from 4 to 5 kmph</li></ul>			<ul style="list-style-type: none"><li>▪ Probability of light rain</li><li>▪ <b>Max temp</b> is likely to be 36<sup>0</sup>C - 37<sup>0</sup>C and <b>min temp</b> 23<sup>0</sup>C to 26<sup>0</sup>C</li><li>▪ <b>Sky is likely to be partly cloudy</b> the coming week</li><li>▪ <b>Relative Humidity</b> is likely to range from 53% to 90%.</li><li>▪ <b>Wind speed</b> may reach upto 2-4 kmph</li><li>▪ <b>Wind may blow from southeasterly direction</b></li></ul> <b>Weekly cumulative Rainfall:</b> 10mm		
WEATHER FORECAST BASED AGROMET ADVISORIES					
Main crop	Growth Stage	Pest/Disease	Weather based Agro-Advisories		
TRC/WRC paddy	Tillering		Right after transplanting, adequate land submergence of around 5cm is necessary to prevent damage to establishing seedlings from high winds and for root development		
Groundnut	Vegetative stage		It is essential to keep weed free upto 60 after sowing (DAS), as the maximum damage is caused during this period and removal of these weeds by hand within upto 60 DAS results in the highest net returns.		
Naga king chilli	Fruiting stage		Seed should not be collected from virus affected plants, remove the affected plants and destroy		
Cucurbitaceous vegetable	Reproductive stage	Phytophthora blight	Prevention is the first step in managing this disease since this disease is difficult to suppress once it gets started in the fields. Fungicides should be used preventively. Provide proper drainage in fields in order to prevent water logging following heavy rainfall		
Soybean	Vegetative stage	Tobacco caterpillar	Tobacco caterpillar starts from 25-30 days after sowing. Install pheromone traps. Survey the field thoroughly and remove plant parts/ plants having gregarious stage of caterpillars		
Colocasia	Vegetative stage	Leaf webber	Monitoring should be done for leaf webber. The larvae rolls the leaves and feeds on them. Collect the leaves and bury them in soil. Collect the adult which will be below the leaves and leaf bases		
Ginger	Vegetative stage	Bacterial wilt	For bacterial wilt, once the disease is noticed in the field the affected clumps ,may be removed carefully without spilling the soil around and the affected area and surrounding areas drenched with copper oxychloride 0.2%		
Cattle	Animals afflicted by FMD should be kept in a separate enclosure so that they do not infect the healthy ones. If FMD is prevalent in the area, do not let your animals come in contact with the infected ones				
Poultry	Feed during early morning and late afternoon hours to prevent build up of heat. Feed balanced ration with adequate vitamins and minerals.				
Piggery	In case of detection of roundworm in pig, separate the one youngs from infected pig, periodic deworming should be done				
Fishery	Avoid excessive manuring and feeding which can lead to oxygen depletion in cloudy weather.				



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Date: 13.08.19	District: Kiphire	Bulletin No: 64/2019
<b>Weather of preceding week</b>		<b>Weather forecast valid upto 18.08.2019</b>
<ul style="list-style-type: none"> <li>Moderate rain occurred the past week</li> <li>Max and min temperatures ranged 28<sup>0</sup>C to 31<sup>0</sup>C and 18<sup>0</sup>C to 21<sup>0</sup>C, respectively.</li> <li>Relative humidity varied from 67% to 94%.</li> <li>Wind speed ranged from 2 to 3 kmph</li> </ul>		<ul style="list-style-type: none"> <li>Probability of heavy rain</li> <li><b>Max temp</b> is likely to be 29<sup>0</sup>C-30<sup>0</sup>C and <b>min temp</b> 18<sup>0</sup>C to 19<sup>0</sup>C</li> <li><b>Sky is likely to be partly cloudy</b> the coming week</li> <li><b>Relative Humidity</b> is likely to range from 75% to 95%.</li> <li><b>Wind speed</b> may reach upto 2-3 kmph</li> <li><b>Wind may blow from mostly easterly direction</b></li> </ul>
		<b>Weekly cumulative Rainfall:</b> 90mm

**WEATHER FORECAST BASED AGROMET ADVISORIES**

Main crop	Growth Stage	Pest/Disease	Weather based Agro-Advisories
<i>Jhum paddy</i>	Anthesis stage	Gundhi bug	It is a serious pest during the milky stage. Feeding causes empty or small grains during the milking stage. Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the bug
<i>TRC /WRC paddy</i>	Tillering		Adequate land submergence of around 5cm should be done to prevent damage to establishing seedlings from high winds and for root development.
<i>Cucurbitaceous vegetable</i>	Vegetative stage		Daily scouting should be done for pest and disease
<i>Brinjal</i>	Fruiting stage	Shoot & fruit borer	Pheromone traps @ 5/ acre should be installed for monitoring and mass trapping of shoot & fruit borer. Replace the lures with fresh lures after every 15-20 day interval.
<i>King chilli</i>	Flowering / fruiting stage	Fruit borer	For fruit borer, collect and destroy the damaged fruits and grown up caterpillars.
<i>Colocasia</i>	Vegetative stage	Leaf blight	Present weather is favourable for the development of leaf blight. The diseases can be controlled by using 2 – 3 spray of Dithane M – 45 @ 2g/liter of water followed by Ridomil @ 2 g/ liter of water after 15 days of first application.
<i>Large cardamon</i>	Vegetative stage	Leaf eating caterpillar	Caterpillar feeds on the leaf lamina from under the surface of the leaf and finally defoliates the leaf completely leaving only the midribs. Handpick the infected leaves along with the caterpillars and destroy them by burning.
Poultry	High humidity is favourable for occurrence of coccidial disease especially in poultry. Provide anti-coccidial drugs. Provide ample supply of clean drinking water, keep the house clean and dry		
Piggery	Monsoon weather could lead to gastrointestinal parasites infection. It is advised to maintain good sanitary conditions of pig sheds.		
Fishery	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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Date: 13.08.19		District: Kohima		Bulletin No: 64/2019	
Weather of preceding week			Weather forecast valid upto 18.08.2019		
<ul style="list-style-type: none"><li>Heavy rain occurred the past week</li><li>Max and min temperatures ranged 25<sup>0</sup>C to 26<sup>0</sup>C and 17<sup>0</sup>C to 18<sup>0</sup>C, respectively.</li><li>Relative humidity varied from 62% to 95%.</li><li>Wind speed ranged from 4 to 6kmph</li></ul>			<ul style="list-style-type: none"><li>Probability of moderate to heavy rain</li><li><b>Max temp</b> is likely to be 29<sup>0</sup>C - 31<sup>0</sup>C and <b>min temp</b> 18<sup>0</sup>C to 19<sup>0</sup>C</li><li><b>Sky is likely to be cloudy</b> the coming week</li><li><b>Relative Humidity</b> is likely to range from 79% to 94%.</li><li><b>Wind speed</b> may reach upto 2-4 kmph</li><li><b>Wind may blow from mostly southeasterly direction</b></li></ul> <b>Weekly cumulative Rainfall:</b> 60mm		
WEATHER FORECAST BASED AGROMET ADVISORIES					
Main crop	Stage	Pest/Disease	Weather based Agro-Advisories		
<i>Jhum paddy</i>	Anthesis stage	Gundhi bug	Fixing of dead crabs, frogs or even pieces of jackfruit (Artocarpus heterophyllas) to bamboo sticks in rice fields should be done to attract and divert pests from sucking milk of rice grain		
<i>TRC paddy</i>	Tillering stage		Severe weed infestation due to moist soil, use simple rotary weeder between the crop rows in both the directions. About four rotary weeding at 10 to 15 days interval could be adequate till panicle initiation		
<i>Cucurbitaceous vegetable</i>	Flowering /fruiting stage	Fruit fly	Left over weeds should be removed from the field to avoid further spread of weed seeds. Timely collect and destroy the infested fruits Slightly rake the soil during fruiting time and after the harvest to expose pupae from the soil		
<i>Foxtail Millet</i>	Vegetative stage		Timely remove and destroy the disease affected plants to avoid spread of the disease.		
<i>Soybean</i>	Vegetative stage		Spray NSKE@ 5% to manage early stage larvae and sucking pest		
<i>Ginger</i>	Vegetative stage	Soft rot	Stagnation of water predisposes the plant to soft rot infection. Timely earthing up should be done and provide proper channels for drainage of water		
<i>Banana</i>	For additional income and also for effective land use efficiency, short duration crops can be grown as intercrop. It will also check weed control				
<i>Poultry</i>	High humidity is favourable for occurrence of coccidiodial disease especially in poultry. Provide anti- coccidial drugs. Provide ample supply of clean drinking water, keep the house clean and dry.				
<i>Piggery</i>	Disinfect the floors and walls at frequent intervals. Daily inspection early in the morning should be done for any abnormal behaviour. Observe their general stage of health, check for parasites and injuries, and watch out for any abnormal feeding habits.				
<i>Fishery</i>	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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Date: 13.08.19		District: Longleng		Bulletin No: 64/2019	
Weather of preceding week			Weather forecast valid upto 18.08.2019		
<ul style="list-style-type: none"><li>Moderate rain occurred the past week</li><li>Max and min temperatures ranged 29<sup>0</sup>C to 31<sup>0</sup>C and 19<sup>0</sup>C to 22<sup>0</sup>C, respectively.</li><li>Relative humidity varied from 57% to 90%.</li><li>Wind speed ranged from 3 to 4 kmph</li></ul>			<ul style="list-style-type: none"><li>Probability of light to moderate rain</li><li><b>Max temp</b> is likely to be 29<sup>0</sup>C-31<sup>0</sup>C and <b>min temp</b> 18<sup>0</sup>C to 19<sup>0</sup>C</li><li><b>Sky is likely to be cloudy</b> the coming week</li><li><b>Relative Humidity</b> is likely to range from 73% to 90%.</li><li><b>Wind speed</b> may reach upto 3-4 kmph</li><li><b>Wind may blow from mostly south easterly direction</b></li></ul> <b>Weekly cumulative Rainfall:</b> 40mm		
WEATHER FORECAST BASED AGROMET ADVISORIES					
Main crop	Growth Stage	Pest/Disease	Weather based Agro-Advisories		
Jhum paddy	Inflorescence stage	Gundhi bug	Trap adult bugs using a light trap, sweep net and dirty trap of cattle urine/dung and then destroy the traps by suitable means. Keep on hanging the cattle urine soaked gunny bag or cow dung wrapped cloth in the field, just at the height of the crop to attract the bugs.		
TRC/WRC paddy	Tillering stage	Leaf folder	Keep the bunds clean by trimming them and remove the grassy weeds. Clipping of the affected leaves. Use of rope to dislodge the leaf feeding larvae of leaf folders. Open up the leaf folds with the help of a thorny twig.		
Soybean	Vegetative stage		Field scouting should be undertaken to keep a close watch on the appearance of insect pest, disease.		
Brinjal	Fruiting stage	Stem borer	Infested plant withers up and presents a stunted growth due to the feeding activities of the caterpillar on the tissue of the stem. Remove and destroy the affected parts of the plants and pruning should be done		
Ginger	Vegetative stage	Shoot borer	Start monitoring of shoot borer. Main symptom is the presence of a borehole on the pseudostem through which frass is extruded and the withered and yellow central shoot.		
Chilli	Flowering to fruiting stage	Fruit borer	Install pheromone traps with replacement of lures once in 15 days		
Colocasia			Timely weeding and earthing up should be done to prevent soil based pupation.		
Poultry	<ul style="list-style-type: none"><li>Provide vitamins along with their feed as vitamin deficiencies can cause birds to start feather picking which becomes a problem</li></ul>				
Piggery	<ul style="list-style-type: none"><li>Provide plenty of clean drinking water. Keep the pig sty clean, dry and follow regular de-worming to all the pigs</li></ul>				
Fishery	In those district where it is raining consistently, fish farmers need to be vigilant; check the pH of the pond regularly as rain cause depletion in pH, thereby causing mortality of the fish.				





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Date: 13.08.19		District: Mokokchung		Bulletin No: 64/2019	
Weather of preceding week			Weather forecast valid upto 18.08.2019		
<ul style="list-style-type: none"><li>Moderate rain occurred the past week</li><li>Max and min temperatures ranged 33<sup>0</sup>C to 39<sup>0</sup>C and 25<sup>0</sup>C to 27<sup>0</sup>C, respectively.</li><li>Relative humidity varied from 62% to 95%.</li><li>Wind speed ranged from 3 to 4 kmph</li></ul>			<p>Probability of moderate to heavy rain</p> <p><b>Max temp</b> is likely to be 29<sup>0</sup>C-31<sup>0</sup>C and <b>min temp</b> 18<sup>0</sup>C to 19<sup>0</sup>C</p> <p><b>Sky is likely to be cloudy</b> the coming week</p> <p><b>Relative Humidity</b> is likely to range from 84% to 97%.</p> <p><b>Wind speed</b> may reach upto 3-4 kmph</p> <p><b>Wind may blow from mostly southerly direction</b></p> <p><b>Weekly cumulative Rainfall:</b> 70mm</p>		
WEATHER FORECAST BASED AGROMET ADVISORIES					
Main crop		Growth Stage	Pest/Disease	Weather based Agro-Advisories	
Jhum paddy		Inflorescence stage	Gundhi bug	Trap adult bugs using a light trap, sweep net and dirty trap of cattle urine/dung and then destroy the traps by suitable means. Keep on hanging the cattle urine soaked gunny bag or cow dung wrapped cloth in the field, just at the height of the crop to attract the bugs.	
TRC/WRC paddy		Tillering stage	Leaf folder	Keep the bunds clean by trimming them and remove the grassy weeds. Clipping of the affected leaves. Use of rope to dislodge the leaf feeding larvae of leaf folders. Open up the leaf folds with the help of a thorny twig.	
Soybean		Vegetative stage		Field scouting should be undertaken to keep a close watch on the appearance of insect pest, disease.	
Brinjal		Fruiting stage	Stem borer	Infested plant withers up and presents a stunted growth due to the feeding activities of the caterpillar on the tissue of the stem. Remove and destroy the affected parts of the plants and pruning should be done	
Ginger		Vegetative stage	Shoot borer	Start monitoring of shoot borer. Main symptom is the presence of a borehole on the pseudostem through which frass is extruded and the withered and yellow central shoot.	
Chilli		Flowering to fruiting stage	Fruit borer	Install pheromone traps with replacement of lures once in 15 days	
Colocasia				Timely weeding and earthing up should be done to prevent soil based pupation.	
Tapioca		For mealy bug, prune and burned the infested branches, timely removal of weeds, prevent the movement of ants and destroy the already existing ant colonies and clean the farm implements before moving it to the infested crop			
Poultry		<ul style="list-style-type: none"><li>Provide vitamins along with their feed as vitamin deficiencies can cause birds to start feather picking which becomes a problem</li></ul>			
Piggery		<ul style="list-style-type: none"><li>Provide plenty of clean drinking water. Keep the pig sty clean, dry and follow regular de-worming to all the pigs</li></ul>			
Fishery		In those district where it is raining consistently, fish farmers need to be vigilant; check the pH of the pond regularly as rain cause depletion in pH, thereby causing mortality of the fish.			



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Date: 13.08.19		District: Mon	Bulletin No: 64/2019
Weather of preceding week		Weather forecast valid upto 18.08.2019	
<ul style="list-style-type: none"> <li>Heavy rain occurred the past week</li> <li>Max and min temperatures ranged 27°C to 28°C and 17°C to 18°C, respectively.</li> <li>Relative humidity varied from 64% to 90%.</li> <li>Wind speed ranged from 3 to 5 kmph</li> </ul>		<ul style="list-style-type: none"> <li>Probability of moderate to heavy rain</li> <li><b>Max temp</b> is likely to be 29°C - 31°C and <b>min temp</b> 18°C to 19°C</li> <li><b>Sky is likely to be partly cloudy</b> the coming week</li> <li><b>Relative Humidity</b> is likely to range from 76% to 95%.</li> <li><b>Wind speed</b> may reach upto 4-5 kmph</li> <li><b>Wind may blow from mostly south easterly direction</b></li> </ul>	
		Weekly cumulative Rainfall: 90mm	
Main crop	Growth Stage	Pest/Disease	Weather based Agro-Advisories
<i>Jhum paddy</i>	Milk development stage	Gundhi bug	Keep fermented snail or crab bait @20-25/ha to attract and divert pests from sucking milk of rice grain.
<i>TRC/WRC paddy</i>	Tillering 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.
<i>Colocasia</i>	Vegetative stage	Leaf blight	Present weather is favourable for development of leaf blight. The disease appears on the foliage first as purple to brownish circular water soaked lesions usually at the tip, base and margins of the leaves.
<i>Cucurbitaceous</i>	Vegetative stage	Fruit fly	Bury any infested fruit to prevent the build up of fruit fly population. Covering the fruits with polythene/paper covers help to prevent flies from laying eggs inside the fruits
<i>Ground nut</i>	Vegetative stage		It is essential to keep weed free upto 60 after sowing (DAS), as the maximum damage is caused during this period and removal of these weeds by hand within upto 60 DAS results in the highest net returns.
<i>Soybean</i>	Vegetative stage	Tobacco caterpillar	Tobacco caterpillar starts from 25-30 days after sowing. Install pheromone traps. Survey the field thoroughly and remove plant parts/ plants having gregarious stage of caterpillars
<i>Cardamom</i>	Vegetative stage	Leaf eating caterpillar	It feeds on the leaf lamina from under the surface of the leaf and finally defoliates the leaf completely leaving only the midribs. The best method of control is to handpick the infected leaves along with the caterpillars and destroy them by burning.
<i>Poultry</i>	Avoid overcrowding, Keep the poultry house clean and dry, provide only clean drinking water and provide electrovet powder after vaccination.		
<i>Piggery</i>	Shed should be ventilated and dry. Feed the animals during cool hours of the day		
<i>Fishery</i>	If it is raining consistently, check the pH of the pond regularly as rain cause depletion in pH, thereby causing mortality of the fish. Such ponds should be limed, consulting the nearest Fishery officer.		



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Date: 13.08.19		District: Peren		Bulletin No: 64/2019	
Weather of preceding week			Weather forecast valid upto 18.08.2019		
<ul style="list-style-type: none"><li>▪ Moderate rain occurred the past week</li><li>▪ Max and min temperatures ranged 32<sup>0</sup>C to 40<sup>0</sup>C and 25<sup>0</sup>C to 26<sup>0</sup>C, respectively.</li><li>▪ Relative humidity varied from 69% to 90%.</li><li>▪ Wind speed ranged from 3 to 4 kmph</li></ul>			<ul style="list-style-type: none"><li>▪ Probability of heavy rain</li><li>▪ <b>Max temp</b> is likely to be 29<sup>0</sup>C - 31<sup>0</sup>C and <b>min temp</b> 18<sup>0</sup>C to 19<sup>0</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 84% to 95%.</li><li>▪ <b>Wind speed</b> may reach upto 3-5 kmph</li><li>▪ <b>Wind may blow from mostly southerly direction</b></li></ul> <b>Weekly cumulative Rainfall:</b> 70 mm		
WEATHER FORECAST BASED AGROMET ADVISORIES					
Main crop	Growth Stage	Pest/Disease	Weather based Agro-Advisories		
Jhum paddy	Inflorescence emergence	Gundhi bug	Keep fermented snail or crab bait @20-25/ha to attract and divert pests from sucking milk of rice grain. Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the bug.		
TRC/WRC paddy	Tillering		Right after transplanting, adequate land submergence of around 5cm is necessary to prevent damage to establishing seedlings from high winds and for root development		
Groundnut	Vegetative stage		It is essential to keep weed free upto 60 after sowing (DAS), as the maximum damage is caused during this period and removal of these weeds by hand within upto 60 DAS results in the highest net returns.		
Naga king chilli	Fruiting stage		Seed should not be collected from virus affected plants, remove the affected plants and destroy		
Cucurbitaceous vegetable	Reproductive stage	Phytophthora blight	Prevention is the first step in managing this disease since this disease is difficult to suppress once it gets started in the fields. Fungicides should be used preventively. Provide proper drainage in fields in order to prevent water logging following heavy rainfall		
Soybean	Vegetative stage	Tobacco caterpillar	Tobacco caterpillar starts from 25-30 days after sowing. Install pheromone traps. Survey the field thoroughly and remove plant parts/ plants having gregarious stage of caterpillars		
Colocasia	Vegetative stage	Leaf webber	Monitoring should be done for leaf webber. The larvae rolls the leaves and feeds on them. Collect the leaves and bury them in soil. Collect the adult which will be below the leaves and leaf bases		
Poultry	Feed during early morning and late afternoon hours to prevent build up of heat. Feed balanced ration with adequate vitamins and minerals.				
Piggery	In case of detection of roundworm in pig, separate the one youngs from infected pig, periodic deworming should be done				
Fishery	Avoid excessive manuring and feeding which can lead to oxygen depletion in cloudy weather.				





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Date: 13.08.19	District: Phek	Bulletin No: 64/2019
Weather of preceding week		Weather forecast valid upto 18.08.2019
<ul style="list-style-type: none"> <li>Moderate rain occurred the past week</li> <li>Max and min temperatures ranged 25<sup>0</sup>C to 27<sup>0</sup>C and 17<sup>0</sup>C to 18<sup>0</sup>C, respectively.</li> <li>Relative humidity varied from 61% to 98%.</li> <li>Wind speed ranged from 3 to 4kmph</li> </ul>		<ul style="list-style-type: none"> <li>Probability of moderate to heavy rain</li> <li><b>Max temp</b> is likely to be 28<sup>0</sup>C - 30<sup>0</sup>C and <b>min temp</b> 18<sup>0</sup>C to 19<sup>0</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 78% to 95%.</li> <li><b>Wind speed</b> may reach upto 2-3 kmph</li> <li><b>Wind may blow mostly southwesterly direction</b></li> </ul>
		<b>Weekly cumulative Rainfall:</b> 50mm

**WEATHER FORECAST BASED AGROMET ADVISORIES**

Main crop	Growth Stage	Pest/Disease	Weather based Agro-Advisories
<i>Jhum paddy</i>	Anthesis stage	Gundhi bug	Fixing of dead crabs, frogs or even pieces of jackfruit ( <i>Artocarpus heterophyllas</i> ) to bamboo sticks in rice fields should be done to attract and divert pests from sucking milk of rice grain
<i>TRC paddy</i>	Tillering stage		Severe weed infestation due to moist soil, use simple rotary weeder between the crop rows in both the directions. About four rotary weeding at 10 to 15 days interval could be adequate till panicle initiation
<i>Cucurbitaceous vegetable</i>	Flowering /fruiting stage	Fruit fly	Left over weeds should be removed from the field to avoid further spread of weed seeds. Timely collect and destroy the infested fruits Slightly rake the soil during fruiting time and after the harvest to expose pupae from the soil
<i>Foxtail Millet</i>	Vegetative stage		Timely remove and destroy the disease affected plants to avoid spread of the disease.
<i>Soybean</i>	Vegetative stage		Spray NSKE@ 5% to manage early stage larvae and sucking pest
<i>Ginger</i>	Vegetative stage	Soft rot	Stagnation of water predisposes the plant to soft rot infection. Timely earthing up should be done and provide proper channels for drainage of water
<i>Ginger</i>	Vegetative stage	Rhizome rot	Once the diseases is spotted in the field, remove the affected clumps and drench the soil with Bordeaux mixture 1% at 15 days interval.
<i>Cattle</i>	•		
<i>Poultry</i>	High humidity is favourable for occurrence of coccidial disease especially in poultry. Provide anti- coccidial drugs. Provide ample supply of clean drinking water, keep the house clean and dry.		
<i>Piggery</i>	Disinfect the floors and walls at frequent intervals. Daily inspection early in the morning should be done for any abnormal behaviour. Observe their general stage of health, check for parasites and injuries, and watch out for any abnormal feeding habits.		
<i>Fishery</i>	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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Date: 13.08.19		District: Tuensang		Bulletin No: 64/2019	
Weather of preceding week			Weather forecast valid upto 18.08.2019		
<ul style="list-style-type: none"><li>▪ Moderate rain occurred the past week</li><li>▪ Max and min temperatures ranged 27<sup>0</sup>C to 28<sup>0</sup>C and 17<sup>0</sup>C to 18<sup>0</sup>C respectively.</li><li>▪ Relative humidity varied from 70% to 90%.</li><li>▪ Wind speed ranged from 3 to 4kmph</li></ul>			<ul style="list-style-type: none"><li>▪ Probability of moderate to heavy rain</li><li>▪ <b>Max temp</b> is likely to be 29<sup>0</sup>C-31<sup>0</sup>C and <b>min temp</b> 18<sup>0</sup>C to 19<sup>0</sup>C</li><li>▪ <b>Sky is likely to be partly cloudy</b> the coming week</li><li>▪ <b>Relative Humidity</b> is likely to range from 83% to 95%.</li><li>▪ <b>Wind speed</b> may reach upto 2-3 kmph</li><li>▪ <b>Wind may blow from mostly westerly direction</b></li></ul> <b>Weekly cumulative Rainfall:</b> 80mm		
WEATHER FORECAST BASED AGROMET ADVISORIES					
Main crop		Growth Stage	Pest/Disease	Weather based Agro-Advisories	
Jhum paddy		Anthesis stage	Gundhi bug	It is a serious pest during the milky stage. Feeding causes empty or small grains during the milking stage. Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the bug	
TRC /WRC paddy		Tillering		Adequate land submergence of around 5cm should be done to prevent damage to establishing seedlings from high winds and for root development.	
Cucurbitaceous vegetable		Vegetative stage		Daily scouting should be done for pest and disease	
Brinjal		Fruiting stage	Shoot & fruit borer	Pheromone traps @ 5/ acre should be installed for monitoring and mass trapping of shoot & fruit borer. Replace the lures with fresh lures after every 15-20 day interval.	
King chilli		Flowering / fruiting stage	Fruit borer	For fruit borer, collect and destroy the damaged fruits and grown up caterpillars.	
Colocasia		Vegetative stage	Leaf blight	Present weather is favourable for the development of leaf blight.The diseases can be controlled by using 2 – 3 spray of Dithane M – 45 @ 2g/liter of water followed by Ridomil @ 2 g/ liter of water after 15 days of first application.	
Poultry		High humidity is favourable for occurrence of coccidiodial disease especially in poultry. Provide anti-coccidial drugs. Provide ample supply of clean drinking water, keep the house clean and dry			
Piggery		Monsoon weather could lead to gastrointestinal parasites infection. It is advised to maintain good sanitary conditions of pig sheds.			
Fishery		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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Date: 13.08.19	District: Wokha	Bulletin No: 64/2019
Weather of preceding week		Weather forecast valid upto 18.08.2019
<ul style="list-style-type: none"> <li>Moderate rain occurred the past week</li> <li>Max and min temperatures ranged 27<sup>0</sup>C to 29<sup>0</sup>C and 17<sup>0</sup>C to 18<sup>0</sup>C respectively.</li> <li>Relative humidity varied from 62% to 94%.</li> <li>Wind speed ranged from 4 to 6 kmph</li> </ul>		<ul style="list-style-type: none"> <li>Probability of moderate to heavy rain</li> <li><b>Max temp</b> is likely to be 29<sup>0</sup>C-30<sup>0</sup>C and <b>min temp</b> 18<sup>0</sup>C to 20<sup>0</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 70% to 90%.</li> <li><b>Wind speed</b> may reach upto 4-5 kmph</li> <li><b>Wind may blow from mostly southeasterly direction</b></li> <li><b>Weekly cumulative Rainfall:</b> 50mm</li> </ul>

**WEATHER FORECAST BASED AGROMET ADVISORIES**

Main crop	Growth Stage	Pest/Disease	Weather based Agro-Advisories
<i>Jhum paddy</i>	Inflorescence stage	Gundhi bug	Trap adult bugs using a light trap, sweep net and dirty trap of cattle urine/dung and then destroy the traps by suitable means. Keep on hanging the cattle urine soaked gunny bag or cow dung wrapped cloth in the field, just at the height of the crop to attract the bugs.
<i>TRC/WRC paddy</i>	Tillering stage	Leaf folder	Keep the bunds clean by trimming them and remove the grassy weeds. Clipping of the affected leaves. Use of rope to dislodge the leaf feeding larvae of leaf folders. Open up the leaf folds with the help of a thorny twig.
<i>Soybean</i>	Vegetative stage		Field scouting should be undertaken to keep a close watch on the appearance of insect pest, disease.
<i>Brinjal</i>	Fruiting stage	Stem borer	Infested plant withers up and presents a stunted growth due to the feeding activities of the caterpillar on the tissue of the stem. Remove and destroy the affected parts of the plants and pruning should be done
<i>Ginger</i>	Vegetative stage	Shoot borer	Start monitoring of shoot borer. Main symptom is the presence of a borehole on the pseudostem through which frass is extruded and the withered and yellow central shoot.
<i>Chilli</i>	Flowering to fruiting stage	Fruit borer	Install pheromone traps with replacement of lures once in 15 days
<i>Colocasia</i>			Timely weeding and earthing up should be done to prevent soil based pupation.
<i>Poultry</i>	<ul style="list-style-type: none"> <li>Provide vitamins along with their feed as vitamin deficiencies can cause birds to start feather picking which becomes a problem</li> </ul>		
<i>Piggery</i>	<ul style="list-style-type: none"> <li>Provide plenty of clean drinking water. Keep the pig sty clean, dry and follow regular de-worming to all the pigs</li> </ul>		
<i>Fishery</i>	In those district where it is raining consistently, fish farmers need to be vigilant; check the pH of the pond regularly as rain cause depletion in pH, thereby causing mortality of the fish.		