GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

District: Aizawl **Period: 01 November – 05 November, 2017**

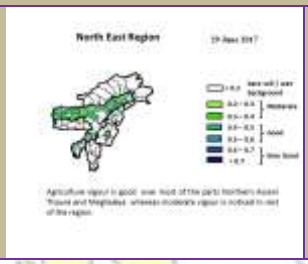
Bulletin No: - 746/2017/ Bulletin/English **Date of issue: 31st October, 2017**

Parameters	01.11.2017	02.11.2017	03.11.2017	04.11.2017	05.11.2017
Rainfall (mm)	0	0	5	5	0
Max Temp (ºC)	28	28	27	27	27
Min Temp (ºC)	14	14	13	15	14
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Partially clear	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	33	35	93	97	84
Wind Speed (KmpH)	3	3	4	3	0
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- August 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 384.87mm (430.2mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

Weather summary of the past three days	Weather forecast valid from 01st November, 2017 To 05th November, 2017.
Maximum Tem. (ºC):21-23ºC **Minimum Tem. (ºC):13ºC** **Maximum RH (%):97-99%** **Minimum RH (%):84-91%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2-3 km/hr** **Rainfall: 45.6 mm**	There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 27-28ºC and 13-15ºC. Maximum relative humidity is expected in the range of 100% and minimum may from 33-97%. Wind direction would be easterly with the wind speed of 0-4 km per hour. Partially clear will prevail during the next five days. ***Weekly cumulative rainfall:*** **10.0 mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Flowering to fruiting stage**		▪ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ▪ Medium to young seedling should be support by bamboo stake. ▪ Use split dose of fertilizer for normal growth and development. ▪ To increase the fruit set, spray 2, 4 – D @ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size). ▪ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
		Citrus cancar	▪ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ▪ Control minor infections limited to a small area of the tree by pruning away the affected parts. ▪ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	▪ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	**Harvesting stage**		▪ Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.

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			▪ The fruits should be marketed quickly to prevent loss in weight and their appearance. ▪ The rind becomes wrinkled on drying but the pulp remains in good condition for several days.
		Fruit fly	▪ Collect and burn all infected plant. ▪ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	**Fruiting stage**		▪ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. **Replanting of new seedling** ▪ Medium to young seedling should be support by bamboo stake. ▪ Replace dead plant with young seedlings. ▪ Fertilizer dose should be maintained. **Fruiting stage** ▪ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ▪ Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. ▪ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	**Vegetative stage**		▪ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the

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			channel for maintain field moisture. - Use grass or straw mulch to prevent from waterloss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	**Transplanting stage**		- Plough the field properly. - Make bun in the field and cover with black mulch to reduce water transpiration and also weed control. - Make hole in the upper side of the bun and mix FYM with soil properly. - Apply water in every holes of the bun. - Transplant young suckers in the bun.
CEREALS AND PULSE CROPS			
Kharif Rice	**Panicle Initiation stage**		- According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. - Due to high humidity, high temperature and less rainfall in plan region of the district probability of blast will be high. So apply Tubeconazole @ 1 ml/10 lt of water. - Maintain water level in the field and if possible one hand weeding should be done.
		Gandhi bug	- Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the Gandhi bug. - Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated.
		Rice leafroller	- Stop indiscriminate use of fertilizer. - Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy

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			damage.
Rabi Maize	**Sowing stage**		↓ Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. ↓ Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. ↓ If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage Greengram and blackgram	**Sowing**	**Zero tillage**	↓ Clean all debris from the *jhum* field. ↓ Open the furrow with of dao or dibbler or khurpee. ↓ Put recommended fertilizer dose and mix with soil. ↓ Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.
Zero tillage Soybean cultivation in *Jhum*	**Germination stage**	**Zero tillage**	↓ Thinning must be done where more population was observed. ↓ Apply 2% urea solution for better growth. ↓ Weeding and earthing up should be carried out.
Zero tillage Toria	**Sowing stage**	**Zero tillage**	↓ Due to availability of soil moisture in field, land preparation should be started for toria after rice harvest. It can be grown better in loamy soils having adequate provision of drainage. ↓ Clean all debris from the field. ↓ Open the furrow with of dao or dibbler or khurpee. ↓ Put recommended fertilizer dose and mix with soil. ↓ Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance. ↓ Sow certified seeds from a reliable

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✓ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✓ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✓ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Colocasia	**Harvesting stage**		✓ After this, irrigation has to be withheld to hasten maturity. ✓ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✓ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ✓ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	**Nursery stage**	**Land preparation**	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Raised bed, nursery bed solarisation. ✓ Bed should be 1m width and conventional length. ✓ Application of FYM (1.5-2.0 kg/ m^2) ✓ Line sowing of seeds (7-10cm) ✓ Irrigation must be provide to nursery every alternative days.
Onion	**Nursery stage**	**Poly house**	✓ Raised bed, nursery bed solarisation.

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			✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Sowing stage**		✦ Variable, healthy, well mature and pure seeds should be sown. ✦ Optimum spacing for pole type 60 cm X 30 cm. ✦ Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Capsicum	**Nursery stage**	**Poly house**	✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	**Nursery stage**		✦ Nursery preparation for Brinjal. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery

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			every alternative days.
Chilli	**Nursery stage**		✦ Nursery preparation for tomato. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
Tomato	**Nursery stage**		✦ Nursery preparation for tomato. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
		Damping off	✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. ✦ 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. ✦ Reduce concentrate diet up to 5%. ✦ Provide adequate potable water. ✦ In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory	1. Culling of positive pigs or piglets.

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		Syndrome (PRRS).	
Cattle	**All age group**		➢ In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ➢ Provide UMB/Molases if possible in the feed ➢ Provide 10-30 ml of vitamin B-Complex in feed ➢ 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. ➢ Separate sick animals. ➢ The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. ➢ Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		➢ Provide preventive dose of anti-coccidial drugs to poultry. ➢ Proper ventilation of shed. ➢ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ➢ Avoid overcrowding. ➢ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ➢ Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.

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			✦ Remove wet litter.
FISHERY			
	Monitoring of fish in pond		✦ Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. ✦ Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. ✦ Application of plankton inoculum from other ponds could help in development of plankton production. ✦ The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. ✦ Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. ✦ Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.

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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

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Weather summary of the past three days	01st November – 05th November, 2017 chhunga sik leh sa dinhmun tur tlangpui
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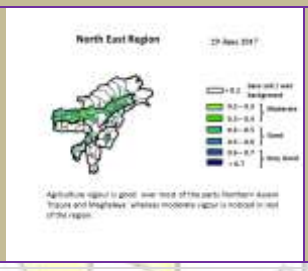
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**A kui atanga a seng hun**		✚ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✚ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✚ Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✚ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
		Gummosis, citrus canker, citrus greening and Dieback	✚ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
		Fruit fly	✚ Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CROP			
COFFEE	**All stages**		**Nursery stage** ✚ Thlai chi thlak hma in *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✚ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✚ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✚ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✚ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	A hun takah leh fimkhhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	**A chin hun**		Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	**Bacterial Blight disease**		✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora blight	- A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani - Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	**Sowing stage**		- Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. - A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	**Sowing stage**		- A than a that theih nan nikhat danah tui pek thin tur ani. - Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBENDARY			
Pig	**All stages**		✚ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. ✚ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. ✚ Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.
	Adult stage	**Swine fever.**	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	**All age group**		• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	**Foot and Mouth Disease (FMD)**	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	**Litter management**		✚ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ✚ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.

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			✦ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ✦ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. ✦ Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. ✦ Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. ✦ Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. ✦ Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani.. ✦ Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

District: Champhai **Period: 01 November – 05 November, 2017**

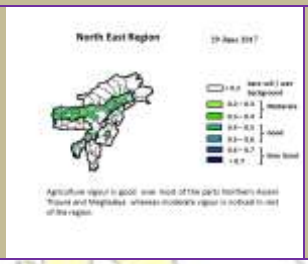
Bulletin No: - 746/2017/ Bulletin/English **Date of issue: 31st October, 2017**

Parameters	01.11.2017	02.11.2017	03.11.2017	04.11.2017	05.11.2017
Rainfall (mm)	0	0	5	10	5
Max Temp (ºC)	28	28	27	27	26
Min Temp (ºC)	14	13	14	11	12
Cloud Coverage	Clear sky	Partially clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	90	100	95	99	95
Min RH (%)	32	31	64	77	81
Wind Speed (KmpH)	4	3	3	3	2
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS STATUS OF MONSOON- August 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 384.87mm (430.2mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

Weather summary of the past three days	Weather forecast valid from 01st November, 2017 To 05th November, 2017.
Maximum Tem. (ºC):19-20ºC **Minimum Tem. (ºC):13-14ºC** **Maximum RH (%):97-100%** **Minimum RH (%):76-92%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2-3 km/hr** **Rainfall: 42.5 mm**	There are chances of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 26-28ºC and 11-14ºC. Maximum relative humidity is expected in the range of 90-100% and minimum may from 31-81%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Partially clear will prevail during the next five days. ***Weekly cumulative rainfall:* 20.0 mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Flowering to fruiting stage**		▪ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ▪ Medium to young seedling should be support by bamboo stake. ▪ Use split dose of fertilizer for normal growth and development. ▪ To increase the fruit set, spray 2, 4 – D @ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size). ▪ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
		Citrus cancar	▪ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ▪ Control minor infections limited to a small area of the tree by pruning away the affected parts. ▪ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	▪ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	**Harvesting stage**		▪ Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.

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			➢ The fruits should be marketed quickly to prevent loss in weight and their appearance. ➢ The rind becomes wrinkled on drying but the pulp remains in good condition for several days.
		Fruit fly	➢ Collect and burn all infected plant. ➢ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	**Fruiting stage**		➢ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. **Replanting of new seedling** ➢ Medium to young seedling should be support by bamboo stake. ➢ Replace dead plant with young seedlings. ➢ Fertilizer dose should be maintained. **Fruiting stage** ➢ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ➢ Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. ➢ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	**Vegetative stage**		➢ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the

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			channel for maintain field moisture. - Use grass or straw mulch to prevent from waterloss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	**Transplanting stage**		- Plough the field properly. - Make bun in the field and cover with black mulch to reduce water transpiration and also weed control. - Make hole in the upper side of the bun and mix FYM with soil properly. - Apply water in every holes of the bun. - Transplant young suckers in the bun.
CEREALS AND PULSE CROPS			
Kharif Rice	**Panicle Initiation stage**		- According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. - Due to high humidity, high temperature and less rainfall in plan region of the district probability of blast will be high. So apply Tubeconazole @ 1 ml/10 lt of water. - Maintain water level in the field and if possible one hand weeding should be done.
		Gandhi bug	- Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the Gandhi bug. - Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated.
		Rice leafroller	- Stop indiscriminate use of fertilizer. - Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy

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			damage.
Rabi Maize	**Sowing stage**		↓ Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. ↓ Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. ↓ If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage Greengram and blackgram	**Sowing**	**Zero tillage**	↓ Clean all debris from the *jhum* field. ↓ Open the furrow with of dao or dibbler or khurpee. ↓ Put recommended fertilizer dose and mix with soil. ↓ Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.
Zero tillage Soybean cultivation in *Jhum*	**Germination stage**	**Zero tillage**	↓ Thinning must be done where more population was observed. ↓ Apply 2% urea solution for better growth. ↓ Weeding and earthing up should be carried out.
Zero tillage Toria	**Sowing stage**	**Zero tillage**	↓ Due to availability of soil moisture in field, land preparation should be started for toria after rice harvest. It can be grown better in loamy soils having adequate provision of drainage. ↓ Clean all debris from the field. ↓ Open the furrow with of dao or dibbler or khurpee. ↓ Put recommended fertilizer dose and mix with soil. ↓ Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance. ↓ Sow certified seeds from a reliable

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✓ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✓ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✓ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Colocasia	**Harvesting stage**		✓ After this, irrigation has to be withheld to hasten maturity. ✓ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✓ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ✓ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	**Nursery stage**	**Land preparation**	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Raised bed, nursery bed solarisation. ✓ Bed should be 1m width and conventional length. ✓ Application of FYM (1.5-2.0 kg/ m^2) ✓ Line sowing of seeds (7-10cm)
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed

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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Colocasia	**Harvesting stage**		✚ After this, irrigation has to be withheld to hasten maturity. ✚ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✚ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ✚ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	**Nursery stage**	**Land preparation**	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m^2) ✚ Line sowing of seeds (7-10cm) ✓ Irrigation must be provide to nursery every alternative days.
Onion	**Nursery stage**	**Poly house**	✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m^2) ✚ Line sowing of seeds (7-10cm) ✚ Irrigation must be provide to nursery every alternative days.
			✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Sowing stage**		✚ Variable, healthy, well mature and pure seeds should be sown.

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			✦ Optimum spacing for pole type 60 cm X 30 cm. ✦ Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Capsicum	**Nursery stage**	**Poly house**	✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	**Nursery stage**		✦ Nursery preparation for Brinjal. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
Chilli	**Nursery stage**		✦ Nursery preparation for tomato. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
Tomato	**Nursery stage**		✦ Nursery preparation for tomato. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and

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			conventional length. - Application of FYM (1.5-2.0 kg/ m^2) - Line sowing of seeds (7-10cm) - Irrigation must be provide to nursery every alternative days.
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
ANIMAL HUSBENDARY			
Pig	**All stages**		- Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. - 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. - Reduce concentrate diet up to 5%. - Provide adequate potable water. - In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs),
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	**All age group**		- In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. - Provide UMB/Molases if possible in the feed - Provide 10-30 ml of vitamin B-Complex in feed - 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under

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			vet supervision. - Separate sick animals. - The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. - Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**Litter management**		- Provide preventive dose of anti-coccidial drugs to poultry. - Proper ventilation of shed. - Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water - Avoid overcrowding. - Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses. - Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. - Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. - Application of plankton inoculum from other ponds could help in development of plankton production. - The fishes should be observed regularly for sign of disease outbreak especially

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			Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

District: Champhai **Period: 01 November – 05 November, 2017**

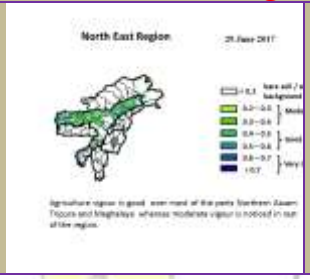
Bulletin No: - 746/2017/ Bulletin/Mizo **Date of issue: 31st October, 2017**

Parameters	01.11.2017	02.11.2017	03.11.2017	04.11.2017	05.11.2017
Rainfall (mm)	0	0	5	10	5
Max Temp (ºC)	28	28	27	27	26
Min Temp (ºC)	14	13	14	11	12
Cloud Coverage	Clear sky	Partially clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	90	100	95	99	95
Min RH (%)	32	31	64	77	81
Wind Speed (KmpH)	4	3	3	3	2
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS STATUS OF MONSOON- August 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 384.87mm (430.2mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

Weather summary of the past three days	01st November – 05th November, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):19-20ºC **Minimum Tem. (ºC):13-14ºC** **Maximum RH (%):97-100%** **Minimum RH (%):76-92%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2-3 km/hr** **Rainfall: 42.5 mm**	Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-28ºC a ni ang a. A vawh lai ber in 11-14ºC ni tura beisei a ni. RH san lai berin of 90-100% leh a hniam lai berin 31-81% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:* 20.0mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**A kui atanga a seng hun**		✚ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✚ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✚ Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✚ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
		Gummosis, citrus canker, citrus greening and Dieback	✚ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
		Fruit fly	✚ Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CROP			
COFFEE	**All stages**		**Nursery stage** ✚ Thlai chi thlak hma in *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✚ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✚ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✚ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✚ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	A hun takah leh fimkhhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	**A chin hun**		Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	↓ A than a that theih nan nikhat danah tui pek thin tur ani. ↓ Lei rih vur hian thlai kung te a veng ve ani. ↓ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		↓ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ↓ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ↓ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ↓ A chi thlak hma in a chi chu en fiah hmasak tur ani. ↓ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	**Bacterial Blight disease**		↓ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . ↓ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ↓ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		↓ A than a that theih nan nikhat danah tui pek thin tur ani. ↓ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ↓ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora blight	- A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani - Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	**Sowing stage**		- Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. - A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	**Sowing stage**		- A than a that theih nan nikhat danah tui pek thin tur ani. - Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBENDARY			
Pig	**All stages**		✚ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. ✚ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. ✚ Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.
	Adult stage	**Swine fever.**	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	**All age group**		• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	**Foot and Mouth Disease (FMD)**	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	**Litter management**		✚ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ✚ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.

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			✦ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ✦ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. ✦ Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. ✦ Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. ✦ Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. ✦ Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani.. ✦ Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

District: Kolasib **Period: 01 November – 05 November, 2017**

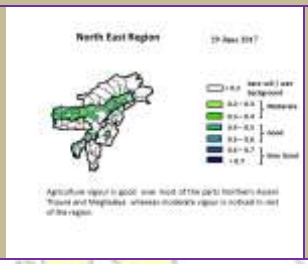
Bulletin No: - 746/2017/ Bulletin/English **Date of issue: 31st October, 2017**

Parameters	01.11.2017	02.11.2017	03.11.2017	04.11.2017	05.11.2017
Rainfall (mm)	0	0	8	10	0
Max Temp (ºC)	30	30	29	28	27
Min Temp (ºC)	15	15	15	15	15
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	95	95	99	98	100
Min RH (%)	38	41	95	97	67
Wind Speed (KmpH)	2	2	4	3	2
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- August 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 384.87mm (430.2mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

Weather summary of the past three days	Weather forecast valid from 01st November, 2017 To 05th November, 2017.
Maximum Tem. (ºC):23-27ºC **Minimum Tem. (ºC):**18-20ºC **Maximum RH (%):**98-100% **Minimum RH (%):**78-92% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2 km/hr **Rainfall:** 84.2 mm	There are chances of moderate to light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 27-30ºC and 15ºC. Maximum relative humidity is expected in the range of 95-100% and minimum may from 38-97%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Partially clear will prevail during the next five days. ***Weekly cumulative rainfall:*** **18.0 mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Flowering to fruiting stage**		▪ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ▪ Medium to young seedling should be support by bamboo stake. ▪ Use split dose of fertilizer for normal growth and development. ▪ To increase the fruit set, spray 2, 4 – D @ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size). ▪ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
		Citrus cancar	▪ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ▪ Control minor infections limited to a small area of the tree by pruning away the affected parts. ▪ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	▪ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	**Harvesting stage**		▪ Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.

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			➢ The fruits should be marketed quickly to prevent loss in weight and their appearance. ➢ The rind becomes wrinkled on drying but the pulp remains in good condition for several days.
		Fruit fly	➢ Collect and burn all infected plant. ➢ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	**Fruiting stage**		➢ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. **Replanting of new seedling** ➢ Medium to young seedling should be support by bamboo stake. ➢ Replace dead plant with young seedlings. ➢ Fertilizer dose should be maintained. **Fruiting stage** ➢ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ➢ Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. ➢ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	**Vegetative stage**		➢ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the

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			channel for maintain field moisture. - Use grass or straw mulch to prevent from waterloss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	**Transplanting stage**		- Plough the field properly. - Make bun in the field and cover with black mulch to reduce water transpiration and also weed control. - Make hole in the upper side of the bun and mix FYM with soil properly. - Apply water in every holes of the bun. - Transplant young suckers in the bun.
CEREALS AND PULSE CROPS			
Kharif Rice	**Panicle Initiation stage**		- According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. - Due to high humidity, high temperature and less rainfall in plan region of the district probability of blast will be high. So apply Tubeconazole @ 1 ml/10 lt of water. - Maintain water level in the field and if possible one hand weeding should be done.
		Gandhi bug	- Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the Gandhi bug. - Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated.
		Rice leafroller	- Stop indiscriminate use of fertilizer. - Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy

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			damage.
Rabi Maize	**Sowing stage**		↓ Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. ↓ Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. ↓ If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage Greengram and blackgram	**Sowing**	**Zero tillage**	↓ Clean all debris from the *jhum* field. ↓ Open the furrow with of dao or dibbler or khurpee. ↓ Put recommended fertilizer dose and mix with soil. ↓ Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.
Zero tillage Soybean cultivation in *Jhum*	**Germination stage**	**Zero tillage**	↓ Thinning must be done where more population was observed. ↓ Apply 2% urea solution for better growth. ↓ Weeding and earthing up should be carried out.
Zero tillage Toria	**Sowing stage**	**Zero tillage**	↓ Due to availability of soil moisture in field, land preparation should be started for toria after rice harvest. It can be grown better in loamy soils having adequate provision of drainage. ↓ Clean all debris from the field. ↓ Open the furrow with of dao or dibbler or khurpee. ↓ Put recommended fertilizer dose and mix with soil. ↓ Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance. ↓ Sow certified seeds from a reliable

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✦ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✦ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Colocasia	**Harvesting stage**		✦ After this, irrigation has to be withheld to hasten maturity. ✦ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✦ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ✦ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	**Nursery stage**	**Land preparation**	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✓ Irrigation must be provide to nursery every alternative days.
Onion	**Nursery stage**	**Poly house**	✦ Raised bed, nursery bed solarisation.

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			✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Sowing stage**		✦ Variable, healthy, well mature and pure seeds should be sown. ✦ Optimum spacing for pole type 60 cm X 30 cm. ✦ Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Capsicum	**Nursery stage**	**Poly house**	✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	**Nursery stage**		✦ Nursery preparation for Brinjal. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery

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			every alternative days.
Chilli	**Nursery stage**		✦ Nursery preparation for tomato. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
Tomato	**Nursery stage**		✦ Nursery preparation for tomato. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
		Damping off	✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. ✦ 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. ✦ Reduce concentrate diet up to 5%. ✦ Provide adequate potable water. ✦ In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory	1. Culling of positive pigs or piglets.

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		Syndrome (PRRS).	
Cattle	**All age group**		➢ In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ➢ Provide UMB/Molases if possible in the feed ➢ Provide 10-30 ml of vitamin B-Complex in feed ➢ 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. ➢ Separate sick animals. ➢ The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. ➢ Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**Litter management**		➢ Provide preventive dose of anti-coccidial drugs to poultry. ➢ Proper ventilation of shed. ➢ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ➢ Avoid overcrowding. ➢ Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses. ➢ Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.

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			↓ Remove wet litter.
FISHERY			
	Monitoring of fish in pond		↓ Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. ↓ Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. ↓ Application of plankton inoculum from other ponds could help in development of plankton production. ↓ The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. ↓ Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. ↓ Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

District: Kolasib **Period: 01 November – 05 November, 2017**

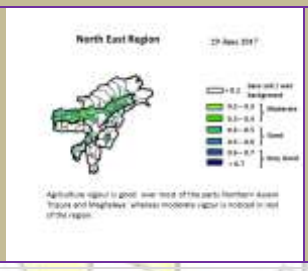
Bulletin No: - 746/2017/ Bulletin/Mizo **Date of issue: 31st October, 2017**

Parameters	01.11.2017	02.11.2017	03.11.2017	04.11.2017	05.11.2017
Rainfall (mm)	0	0	8	10	0
Max Temp (ºC)	30	30	29	28	27
Min Temp (ºC)	15	15	15	15	15
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	95	95	99	98	100
Min RH (%)	38	41	95	97	67
Wind Speed (KmpH)	2	2	4	3	2
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- August 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 384.87mm (430.2mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

Weather summary of the past three days	01st November – 05th November, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):23-27ºC **Minimum Tem. (ºC):18-20ºC** **Maximum RH (%):98-100%** **Minimum RH (%):78-92%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2 km/hr** **Rainfall: 84.2 mm**	Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-30ºC a ni ang a. A vawh lai ber in 15ºC ni tura beisei a ni. RH san lai berin 95-100% leh a hniam lai berin 38-97% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:* 18.0mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**A kui atanga a seng hun**		✦ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✦ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✦ Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
		Gummosis, citrus canker, citrus greening and Dieback	✦ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
		Fruit fly	✦ Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CROP			
COFFEE	**All stages**		**Nursery stage** ✦ Thlai chi thlak hma in *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	A hun takah leh fimkhhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	**A chin hun**		Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	**Bacterial Blight disease**		✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora blight	- A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani - Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	**Sowing stage**		- Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. - A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	**Sowing stage**		- A than a that theih nan nikhat danah tui pek thin tur ani. - Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBENDARY			
Pig	**All stages**		✚ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. ✚ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. ✚ Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.
	Adult stage	**Swine fever.**	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	**All age group**		• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	**Foot and Mouth Disease (FMD)**	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	**Litter management**		✚ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ✚ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.

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			✦ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ✦ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. ✦ Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. ✦ Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. ✦ Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. ✦ Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani.. ✦ Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

District: Lawngtlai **Period:** 01 November – 05 November, 2017

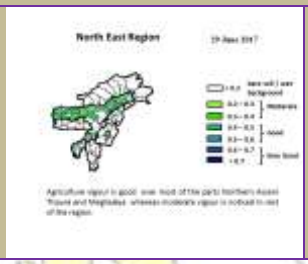
Bulletin No: - 746/2017/ Bulletin/English **Date of issue:** 31st October, 2017

Parameters	01.11.2017	02.11.2017	03.11.2017	04.11.2017	05.11.2017
Rainfall (mm)	0	0	2	5	0
Max Temp (ºC)	30	30	30	29	28
Min Temp (ºC)	17	17	16	16	16
Cloud Coverage	Clear sky	Partially clear	Mainly clear	Mainly cloudy	Mainly clear
Max RH (%)	98	97	95	95	97
Min RH (%)	44	43	49	53	59
Wind Speed (KmpH)	2	2	4	2	2
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- August 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 384.87mm (430.2mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

Weather summary of the past three days	Weather forecast valid from 01st November, 2017 To 05th November, 2017.
Maximum Tem. (ºC):20-21ºC **Minimum Tem. (ºC):**13ºC **Maximum RH (%):**94-99% **Minimum RH (%):**71-94% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2-3 km/hr **Rainfall:** 38.4 mm	There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 28-30ºC and 16-17ºC. Maximum relative humidity is expected in the range of 95-97% and minimum may from 43-59%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Partially clear will prevail during the next five days. ***Weekly cumulative rainfall:*** **07.0 mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Flowering to fruiting stage**		▪ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ▪ Medium to young seedling should be support by bamboo stake. ▪ Use split dose of fertilizer for normal growth and development. ▪ To increase the fruit set, spray 2, 4 – D @ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size). ▪ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
		Citrus cancar	▪ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ▪ Control minor infections limited to a small area of the tree by pruning away the affected parts. ▪ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	▪ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	**Harvesting stage**		▪ Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.

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			➢ The fruits should be marketed quickly to prevent loss in weight and their appearance. ➢ The rind becomes wrinkled on drying but the pulp remains in good condition for several days.
		Fruit fly	➢ Collect and burn all infected plant. ➢ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	**Fruiting stage**		➢ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. **Replanting of new seedling** ➢ Medium to young seedling should be support by bamboo stake. ➢ Replace dead plant with young seedlings. ➢ Fertilizer dose should be maintained. **Fruiting stage** ➢ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ➢ Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. ➢ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	**Vegetative stage**		➢ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the

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			channel for maintain field moisture. - Use grass or straw mulch to prevent from waterloss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	**Transplanting stage**		- Plough the field properly. - Make bun in the field and cover with black mulch to reduce water transpiration and also weed control. - Make hole in the upper side of the bun and mix FYM with soil properly. - Apply water in every holes of the bun. - Transplant young suckers in the bun.
CEREALS AND PULSE CROPS			
Kharif Rice	**Panicle Initiation stage**		- According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. - Due to high humidity, high temperature and less rainfall in plan region of the district probability of blast will be high. So apply Tubeconazole @ 1 ml/10 lt of water. - Maintain water level in the field and if possible one hand weeding should be done.
		Gandhi bug	- Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the Gandhi bug. - Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated.
		Rice leafroller	- Stop indiscriminate use of fertilizer. - Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy

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			damage.
Rabi Maize	**Sowing stage**		↓ Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. ↓ Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. ↓ If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage Greengram and blackgram	**Sowing**	**Zero tillage**	↓ Clean all debris from the *jhum* field. ↓ Open the furrow with of dao or dibbler or khurpee. ↓ Put recommended fertilizer dose and mix with soil. ↓ Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.
Zero tillage Soybean cultivation in *Jhum*	**Germination stage**	**Zero tillage**	↓ Thinning must be done where more population was observed. ↓ Apply 2% urea solution for better growth. ↓ Weeding and earthing up should be carried out.
Zero tillage Toria	**Sowing stage**	**Zero tillage**	↓ Due to availability of soil moisture in field, land preparation should be started for toria after rice harvest. It can be grown better in loamy soils having adequate provision of drainage. ↓ Clean all debris from the field. ↓ Open the furrow with of dao or dibbler or khurpee. ↓ Put recommended fertilizer dose and mix with soil. ↓ Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance. ↓ Sow certified seeds from a reliable

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✓ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✓ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✓ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Colocasia	**Harvesting stage**		✓ After this, irrigation has to be withheld to hasten maturity. ✓ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✓ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ✓ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	**Nursery stage**	**Land preparation**	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Raised bed, nursery bed solarisation. ✓ Bed should be 1m width and conventional length. ✓ Application of FYM (1.5-2.0 kg/ m^2) ✓ Line sowing of seeds (7-10cm) ✓ Irrigation must be provide to nursery every alternative days.
Onion	**Nursery stage**	**Poly house**	✓ Raised bed, nursery bed solarisation.

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			✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Sowing stage**		✦ Variable, healthy, well mature and pure seeds should be sown. ✦ Optimum spacing for pole type 60 cm X 30 cm. ✦ Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Capsicum	**Nursery stage**	**Poly house**	✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	**Nursery stage**		✦ Nursery preparation for Brinjal. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery

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			every alternative days.
Chilli	**Nursery stage**		✦ Nursery preparation for tomato. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
Tomato	**Nursery stage**		✦ Nursery preparation for tomato. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
		Damping off	✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. ✦ 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. ✦ Reduce concentrate diet up to 5%. ✦ Provide adequate potable water. ✦ In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs).
		Porcine Reproductive Respiratory	1. Culling of positive pigs or piglets.

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		Syndrome (PRRS).	
Cattle	**All age group**		✦ In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ✦ Provide UMB/Molases if possible in the feed ✦ Provide 10-30 ml of vitamin B-Complex in feed ✦ 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. ✦ Separate sick animals. ✦ The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. ✦ Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**Litter management**		✦ Provide preventive dose of anti-coccidial drugs to poultry. ✦ Proper ventilation of shed. ✦ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ✦ Avoid overcrowding. ✦ Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses. ✦ Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days:

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			RD R-2B strain. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. - Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. - Application of plankton inoculum from other ponds could help in development of plankton production. - The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. - Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. - Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.

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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

District: Lawngtlai **Period:** 01 November – 05 November, 2017

Bulletin No: - 746/2017/ Bulletin/Mizo **Date of issue:** 31st October, 2017

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Max RH (%)	98	97	95	95	97
Min RH (%)	44	43	49	53	59
Wind Speed (KmpH)	2	2	4	2	2
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- August 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

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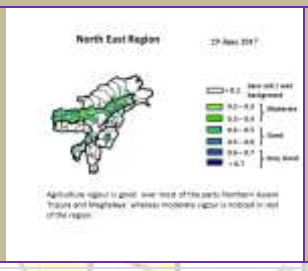
Weather summary of the past three days	01st November – 05th November, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC): 20-21ºC **Minimum Tem. (ºC):** 13ºC **Maximum RH (%):** 94-99% **Minimum RH (%):** 71-94% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2-3 km/hr **Rainfall:** 38.4 mm	Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-30ºC a ni ang a. A vawh lai ber in 16-17ºC ni tura beisei a ni. RH san lai berin 95-97% leh a hniam lai berin 43-59% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **07.0mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**A kui atanga a seng hun**		✦ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✦ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✦ Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
		Gummosis, citrus canker, citrus greening and Dieback	✦ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
		Fruit fly	✦ Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CROP			
COFFEE	**All stages**		**Nursery stage** ✦ Thlai chi thlak hma in *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	A hun takah leh fimkhhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	**A chin hun**		Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	↓ A than a that theih nan nikhat danah tui pek thin tur ani. ↓ Lei rih vur hian thlai kung te a veng ve ani. ↓ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		↓ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ↓ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ↓ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ↓ A chi thlak hma in a chi chu en fiah hmasak tur ani. ↓ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	**Bacterial Blight disease**		↓ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . ↓ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ↓ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		↓ A than a that theih nan nikhat danah tui pek thin tur ani. ↓ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ↓ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora blight	- A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani - Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	**Sowing stage**		- Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. - A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	**Sowing stage**		- A than a that theih nan nikhat danah tui pek thin tur ani. - Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBENDARY			
Pig	**All stages**		✚ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. ✚ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. ✚ Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.
	Adult stage	**Swine fever.**	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	**All age group**		• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	**Foot and Mouth Disease (FMD)**	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	**Litter management**		✚ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ✚ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.

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			✦ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ✦ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. ✦ Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. ✦ Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. ✦ Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. ✦ Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani.. ✦ Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

District: Lunglei **Period: 01 November – 05 November, 2017**

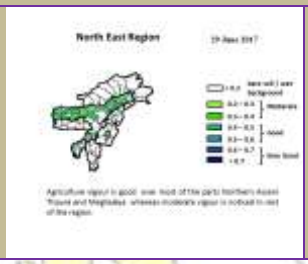
Bulletin No: - 746/2017/ Bulletin/English **Date of issue: 31st October, 2017**

Parameters	01.11.2017	02.11.2017	03.11.2017	04.11.2017	05.11.2017
Rainfall (mm)	0	3	7	0	0
Max Temp (ºC)	29	29	29	28	28
Min Temp (ºC)	16	16	15	16	16
Cloud Coverage	Clear sky	Partially clear	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	100	100	94	99	99
Min RH (%)	39	38	45	73	77
Wind Speed (KmpH)	4	4	4	4	2
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS STATUS OF MONSOON- August 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 384.87mm (430.2mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

Weather summary of the past three days	Weather forecast valid from 01st November, 2017 To 05th November, 2017.
Maximum Tem. (ºC):16-18ºC **Minimum Tem. (ºC):11-14ºC** **Maximum RH (%):97-99%** **Minimum RH (%):73-92%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2-3 km/hr** **Rainfall: 34.8 mm**	There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 28-29ºC and 15-16ºC. Maximum relative humidity is expected in the range of 94-100% and minimum may from 38-77%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Partially clear will prevail during the next five days. ***Weekly cumulative rainfall:* 11.0 mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Flowering to fruiting stage**		▪ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ▪ Medium to young seedling should be support by bamboo stake. ▪ Use split dose of fertilizer for normal growth and development. ▪ To increase the fruit set, spray 2, 4 – D @ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size). ▪ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
		Citrus cancar	▪ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ▪ Control minor infections limited to a small area of the tree by pruning away the affected parts. ▪ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	▪ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	**Harvesting stage**		▪ Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.

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			➢ The fruits should be marketed quickly to prevent loss in weight and their appearance. ➢ The rind becomes wrinkled on drying but the pulp remains in good condition for several days.
		Fruit fly	➢ Collect and burn all infected plant. ➢ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	**Fruiting stage**		➢ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. **Replanting of new seedling** ➢ Medium to young seedling should be support by bamboo stake. ➢ Replace dead plant with young seedlings. ➢ Fertilizer dose should be maintained. **Fruiting stage** ➢ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ➢ Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. ➢ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	**Vegetative stage**		➢ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the

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			channel for maintain field moisture. - Use grass or straw mulch to prevent from waterloss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	**Transplanting stage**		- Plough the field properly. - Make bun in the field and cover with black mulch to reduce water transpiration and also weed control. - Make hole in the upper side of the bun and mix FYM with soil properly. - Apply water in every holes of the bun. - Transplant young suckers in the bun.
CEREALS AND PULSE CROPS			
Kharif Rice	**Panicle Initiation stage**		- According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. - Due to high humidity, high temperature and less rainfall in plan region of the district probability of blast will be high. So apply Tubeconazole @ 1 ml/10 lt of water. - Maintain water level in the field and if possible one hand weeding should be done.
		Gandhi bug	- Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the Gandhi bug. - Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated.
		Rice leafroller	- Stop indiscriminate use of fertilizer. - Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy

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			damage.
Rabi Maize	**Sowing stage**		↓ Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. ↓ Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. ↓ If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage Greengram and blackgram	**Sowing**	**Zero tillage**	↓ Clean all debris from the *jhum* field. ↓ Open the furrow with of dao or dibbler or khurpee. ↓ Put recommended fertilizer dose and mix with soil. ↓ Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.
Zero tillage Soybean cultivation in *Jhum*	**Germination stage**	**Zero tillage**	↓ Thinning must be done where more population was observed. ↓ Apply 2% urea solution for better growth. ↓ Weeding and earthing up should be carried out.
Zero tillage Toria	**Sowing stage**	**Zero tillage**	↓ Due to availability of soil moisture in field, land preparation should be started for toria after rice harvest. It can be grown better in loamy soils having adequate provision of drainage. ↓ Clean all debris from the field. ↓ Open the furrow with of dao or dibbler or khurpee. ↓ Put recommended fertilizer dose and mix with soil. ↓ Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance. ↓ Sow certified seeds from a reliable

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✦ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✦ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Colocasia	**Harvesting stage**		✦ After this, irrigation has to be withheld to hasten maturity. ✦ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✦ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ✦ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	**Nursery stage**	**Land preparation**	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm)
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed

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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Colocasia	**Harvesting stage**		✚ After this, irrigation has to be withheld to hasten maturity. ✚ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✚ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ✚ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	**Nursery stage**	**Land preparation**	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m^2) ✚ Line sowing of seeds (7-10cm) ✓ Irrigation must be provide to nursery every alternative days.
Onion	**Nursery stage**	**Poly house**	✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m^2) ✚ Line sowing of seeds (7-10cm) ✚ Irrigation must be provide to nursery every alternative days.
			✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Sowing stage**		✚ Variable, healthy, well mature and pure seeds should be sown.

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			✦ Optimum spacing for pole type 60 cm X 30 cm. ✦ Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Capsicum	**Nursery stage**	**Poly house**	✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	**Nursery stage**		✦ Nursery preparation for Brinjal. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
Chilli	**Nursery stage**		✦ Nursery preparation for tomato. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
Tomato	**Nursery stage**		✦ Nursery preparation for tomato. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and

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			conventional length. - Application of FYM (1.5-2.0 kg/ m^2) - Line sowing of seeds (7-10cm) - Irrigation must be provide to nursery every alternative days.
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
ANIMAL HUSBENDARY			
Pig	**All stages**		- Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. - 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. - Reduce concentrate diet up to 5%. - Provide adequate potable water. - In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs).
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	**All age group**		- In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. - Provide UMB/Molases if possible in the feed - Provide 10-30 ml of vitamin B-Complex in feed - 1st injection at 6-8 weeks of age, 2nd

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			injection after 6 months of 1st injection followed by annual vaccination under vet supervision. - Separate sick animals. - The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. - Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**Litter management**		- Provide preventive dose of anti-coccidial drugs to poultry. - Proper ventilation of shed. - Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water - Avoid overcrowding. - Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses. - Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. - Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. - Application of plankton inoculum from other ponds could help in development of plankton production.

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			▪ The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. ▪ Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. ▪ Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

District: Lunglei **Period:** 01 November – 05 November, 2017

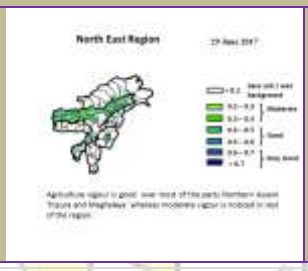
Bulletin No: - 746/2017/ Bulletin/Mizo **Date of issue:** 31st October, 2017

Parameters	01.11.2017	02.11.2017	03.11.2017	04.11.2017	05.11.2017
Rainfall (mm)	0	3	7	0	0
Max Temp (ºC)	29	29	29	28	28
Min Temp (ºC)	16	16	15	16	16
Cloud Coverage	Clear sky	Partially clear	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	100	100	94	99	99
Min RH (%)	39	38	45	73	77
Wind Speed (KmpH)	4	4	4	4	2
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- August 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 384.87mm (430.2mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

Weather summary of the past three days	01st November – 05th November, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC): 16-18ºC **Minimum Tem. (ºC):** 11-14ºC **Maximum RH (%):** 97-99% **Minimum RH (%):** 73-92% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2-3 km/hr **Rainfall:** 34.8 mm	Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-29ºC a ni ang a. A vawh lai ber in 15-16ºC ni tura beisei a ni. RH san lai berin 94-100% leh a hniam lai berin 38-77% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **11.0mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**A kui atanga a seng hun**		✚ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✚ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✚ Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✚ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
		Gummosis, citrus canker, citrus greening and Dieback	✚ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
		Fruit fly	✚ Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CROP			
COFFEE	**All stages**		**Nursery stage** ✚ Thlai chi thlak hma in *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✚ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✚ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✚ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✚ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	A hun takah leh fimkhhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	**A chin hun**		Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	**Bacterial Blight disease**		✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora blight	- A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani - Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	**Sowing stage**		- Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. - A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	**Sowing stage**		- A than a that theih nan nikhat danah tui pek thin tur ani. - Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBENDARY			
Pig	**All stages**		✚ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. ✚ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. ✚ Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.
	Adult stage	**Swine fever.**	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	**All age group**		• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	**Foot and Mouth Disease (FMD)**	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	**Litter management**		✚ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ✚ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.

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			✦ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ✦ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. ✦ Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. ✦ Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. ✦ Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. ✦ Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani.. ✦ Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

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Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

District: Mamit **Period:** 01 November – 05 November, 2017

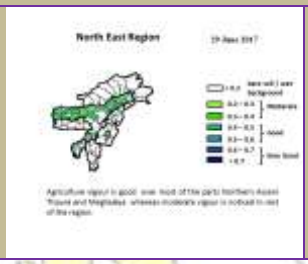
Bulletin No: - 746/2017/ Bulletin/English **Date of issue:** 31st October, 2017

Parameters	01.11.2017	02.11.2017	03.11.2017	04.11.2017	05.11.2017
Rainfall (mm)	0	0	5	5	0
Max Temp (ºC)	28	28	27	27	27
Min Temp (ºC)	14	14	13	15	14
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	95	95	98	95	96
Min RH (%)	33	38	96	97	73
Wind Speed (KmpH)	2	2	4	3	3
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- August 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 384.87mm (430.2mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

Weather summary of the past three days	Weather forecast valid from 01st November, 2017 To 05th November, 2017.
Maximum Tem. (ºC):20-22ºC **Minimum Tem. (ºC):**18-19ºC **Maximum RH (%):**97-100% **Minimum RH (%):**83-92% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2-3 km/hr **Rainfall:** 67.8 mm	There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 27-28ºC and 14-15ºC. Maximum relative humidity is expected in the range of 95-98% and minimum may from 33-97%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly clear will prevail during the next five days. ***Weekly cumulative rainfall:*** **10.0 mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Flowering to fruiting stage**		▪ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ▪ Medium to young seedling should be support by bamboo stake. ▪ Use split dose of fertilizer for normal growth and development. ▪ To increase the fruit set, spray 2, 4 – D @ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size). ▪ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
		Citrus cancar	▪ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ▪ Control minor infections limited to a small area of the tree by pruning away the affected parts. ▪ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	▪ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	**Harvesting stage**		▪ Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.

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			▪ The fruits should be marketed quickly to prevent loss in weight and their appearance. ▪ The rind becomes wrinkled on drying but the pulp remains in good condition for several days.
		Fruit fly	▪ Collect and burn all infected plant. ▪ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	**Fruiting stage**		▪ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. **Replanting of new seedling** ▪ Medium to young seedling should be support by bamboo stake. ▪ Replace dead plant with young seedlings. ▪ Fertilizer dose should be maintained. **Fruiting stage** ▪ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ▪ Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. ▪ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	**Vegetative stage**		▪ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the

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			channel for maintain field moisture. - Use grass or straw mulch to prevent from waterloss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	**Transplanting stage**		- Plough the field properly. - Make bun in the field and cover with black mulch to reduce water transpiration and also weed control. - Make hole in the upper side of the bun and mix FYM with soil properly. - Apply water in every holes of the bun. - Transplant young suckers in the bun.
CEREALS AND PULSE CROPS			
Kharif Rice	**Panicle Initiation stage**		- According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. - Due to high humidity, high temperature and less rainfall in plan region of the district probability of blast will be high. So apply Tubeconazole @ 1 ml/10 lt of water. - Maintain water level in the field and if possible one hand weeding should be done.
		Gandhi bug	- Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the Gandhi bug. - Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated.
		Rice leafroller	- Stop indiscriminate use of fertilizer. - Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy

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			damage.
Rabi Maize	**Sowing stage**		↓ Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. ↓ Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. ↓ If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage Greengram and blackgram	**Sowing**	**Zero tillage**	↓ Clean all debris from the *jhum* field. ↓ Open the furrow with of dao or dibbler or khurpee. ↓ Put recommended fertilizer dose and mix with soil. ↓ Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.
Zero tillage Soybean cultivation in *Jhum*	**Germination stage**	**Zero tillage**	↓ Thinning must be done where more population was observed. ↓ Apply 2% urea solution for better growth. ↓ Weeding and earthing up should be carried out.
Zero tillage Toria	**Sowing stage**	**Zero tillage**	↓ Due to availability of soil moisture in field, land preparation should be started for toria after rice harvest. It can be grown better in loamy soils having adequate provision of drainage. ↓ Clean all debris from the field. ↓ Open the furrow with of dao or dibbler or khurpee. ↓ Put recommended fertilizer dose and mix with soil. ↓ Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance. ↓ Sow certified seeds from a reliable

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✓ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✓ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✓ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Colocasia	**Harvesting stage**		✓ After this, irrigation has to be withheld to hasten maturity. ✓ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✓ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ✓ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	**Nursery stage**	**Land preparation**	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Raised bed, nursery bed solarisation. ✓ Bed should be 1m width and conventional length. ✓ Application of FYM (1.5-2.0 kg/ m^2) ✓ Line sowing of seeds (7-10cm) ✓ Irrigation must be provide to nursery every alternative days.
Onion	**Nursery stage**	**Poly house**	✓ Raised bed, nursery bed solarisation.

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			✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Sowing stage**		✦ Variable, healthy, well mature and pure seeds should be sown. ✦ Optimum spacing for pole type 60 cm X 30 cm. ✦ Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Capsicum	**Nursery stage**	**Poly house**	✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	**Nursery stage**		✦ Nursery preparation for Brinjal. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery

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			every alternative days.
Chilli	**Nursery stage**		✦ Nursery preparation for tomato. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
Tomato	**Nursery stage**		✦ Nursery preparation for tomato. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
		Damping off	✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. ✦ 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. ✦ Reduce concentrate diet up to 5%. ✦ Provide adequate potable water. ✦ In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs).
		Porcine Reproductive Respiratory	1. Culling of positive pigs or piglets.

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		Syndrome (PRRS).	
Cattle	**All age group**		✦ In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ✦ Provide UMB/Molases if possible in the feed ✦ Provide 10-30 ml of vitamin B-Complex in feed ✦ 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. ✦ Separate sick animals. ✦ The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. ✦ Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**Litter management**		✦ Provide preventive dose of anti-coccidial drugs to poultry. ✦ Proper ventilation of shed. ✦ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ✦ Avoid overcrowding. ✦ Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses. ✦ Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days:

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			RD R-2B strain. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. - Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. - Application of plankton inoculum from other ponds could help in development of plankton production. - The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. - Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. - Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

District: Mamit **Period:** 01 November – 05 November, 2017

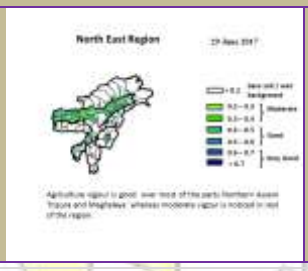
Bulletin No: - 746/2017/ Bulletin/Mizo **Date of issue:** 31st October, 2017

Parameters	01.11.2017	02.11.2017	03.11.2017	04.11.2017	05.11.2017
Rainfall (mm)	0	0	5	5	0
Max Temp (ºC)	28	28	27	27	27
Min Temp (ºC)	14	14	13	15	14
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	95	95	98	95	96
Min RH (%)	33	38	96	97	73
Wind Speed (KmpH)	2	2	4	3	3
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- August 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 384.87mm (430.2mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

Weather summary of the past three days	01st November – 05th November, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):20-22ºC **Minimum Tem. (ºC):**18-19ºC **Maximum RH (%):**97-100% **Minimum RH (%):**83-92% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2-3 km/hr **Rainfall:** 67.8 mm	Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-28ºC a ni ang a. A vawh lai ber in 14-15ºC ni tura beisei a ni. RH san lai berin 95-98% leh a hniam lai berin 33-97% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **10.0mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**A kui atanga a seng hun**		✦ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✦ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✦ Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
		Gummosis, citrus canker, citrus greening and Dieback	✦ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
		Fruit fly	✦ Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CROP			
COFFEE	**All stages**		**Nursery stage** ✦ Thlai chi thlak hma in *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	A hun takah leh fimkhhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	**A chin hun**		Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	**Bacterial Blight disease**		✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora blight	- A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani - Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	**Sowing stage**		- Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. - A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	**Sowing stage**		- A than a that theih nan nikhat danah tui pek thin tur ani. - Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBENDARY			
Pig	**All stages**		✚ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. ✚ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. ✚ Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.
	Adult stage	**Swine fever.**	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	**All age group**		• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	**Foot and Mouth Disease (FMD)**	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	**Litter management**		✚ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ✚ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.

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			✦ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ✦ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. ✦ Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. ✦ Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. ✦ Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. ✦ Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani.. ✦ Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

District: Saiha **Period:** 01 November – 05 November, 2017

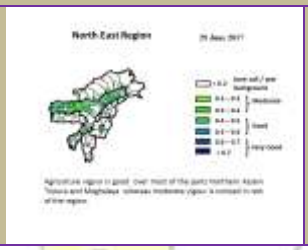
Bulletin No: - 746/2017/ Bulletin/English **Date of issue:** 31st October, 2017

Parameters	01.11.2017	02.11.2017	03.11.2017	04.11.2017	05.11.2017
Rainfall (mm)	0	0	0	0	8
Max Temp (ºC)	29	29	29	28	28
Min Temp (ºC)	16	16	15	15	15
Cloud Coverage	Clear sky	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	98	99	99
Min RH (%)	38	37	56	48	57
Wind Speed (KmpH)	4	4	4	4	2
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS STATUS OF MONSOON- August 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 384.87mm (430.2mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

Weather summary of the past three days	Weather forecast valid from 01st November, 2017 To 05th November, 2017.
Maximum Tem. (ºC):17-19ºC **Minimum Tem. (ºC):**11-13ºC **Maximum RH (%):**95-98% **Minimum RH (%):**71-90% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2-3 km/hr **Rainfall:** 31.9 mm	There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 28-29ºC and 15-16ºC. Maximum relative humidity is expected in the range of 99% and minimum may from 38-56%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Partially clear will prevail during the next five days. ***Weekly cumulative rainfall:*** **08.0 mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Flowering to fruiting stage**		▪ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ▪ Medium to young seedling should be support by bamboo stake. ▪ Use split dose of fertilizer for normal growth and development. ▪ To increase the fruit set, spray 2, 4 – D @ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size). ▪ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
		Citrus cancar	▪ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ▪ Control minor infections limited to a small area of the tree by pruning away the affected parts. ▪ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	▪ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	**Harvesting stage**		▪ Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.

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			▪ The fruits should be marketed quickly to prevent loss in weight and their appearance. ▪ The rind becomes wrinkled on drying but the pulp remains in good condition for several days.
		Fruit fly	▪ Collect and burn all infected plant. ▪ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	**Fruiting stage**		▪ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. **Replanting of new seedling** ▪ Medium to young seedling should be support by bamboo stake. ▪ Replace dead plant with young seedlings. ▪ Fertilizer dose should be maintained. **Fruiting stage** ▪ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ▪ Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. ▪ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	**Vegetative stage**		▪ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the

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			channel for maintain field moisture. - Use grass or straw mulch to prevent from waterloss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	**Transplanting stage**		- Plough the field properly. - Make bun in the field and cover with black mulch to reduce water transpiration and also weed control. - Make hole in the upper side of the bun and mix FYM with soil properly. - Apply water in every holes of the bun. - Transplant young suckers in the bun.
CEREALS AND PULSE CROPS			
Kharif Rice	**Panicle Initiation stage**		- According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. - Due to high humidity, high temperature and less rainfall in plan region of the district probability of blast will be high. So apply Tubeconazole @ 1 ml/10 lt of water. - Maintain water level in the field and if possible one hand weeding should be done.
		Gandhi bug	- Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the Gandhi bug. - Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated.
		Rice leafroller	- Stop indiscriminate use of fertilizer. - Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy

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			damage.
Rabi Maize	**Sowing stage**		↓ Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. ↓ Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. ↓ If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage Greengram and blackgram	**Sowing**	**Zero tillage**	↓ Clean all debris from the *jhum* field. ↓ Open the furrow with of dao or dibbler or khurpee. ↓ Put recommended fertilizer dose and mix with soil. ↓ Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.
Zero tillage Soybean cultivation in *Jhum*	**Germination stage**	**Zero tillage**	↓ Thinning must be done where more population was observed. ↓ Apply 2% urea solution for better growth. ↓ Weeding and earthing up should be carried out.
Zero tillage Toria	**Sowing stage**	**Zero tillage**	↓ Due to availability of soil moisture in field, land preparation should be started for toria after rice harvest. It can be grown better in loamy soils having adequate provision of drainage. ↓ Clean all debris from the field. ↓ Open the furrow with of dao or dibbler or khurpee. ↓ Put recommended fertilizer dose and mix with soil. ↓ Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance. ↓ Sow certified seeds from a reliable

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✓ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✓ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✓ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Colocasia	**Harvesting stage**		✓ After this, irrigation has to be withheld to hasten maturity. ✓ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✓ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ✓ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	**Nursery stage**	**Land preparation**	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Raised bed, nursery bed solarisation. ✓ Bed should be 1m width and conventional length. ✓ Application of FYM (1.5-2.0 kg/ m^2) ✓ Line sowing of seeds (7-10cm)
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed

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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Colocasia	**Harvesting stage**		✚ After this, irrigation has to be withheld to hasten maturity. ✚ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✚ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ✚ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	**Nursery stage**	**Land preparation**	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m^2) ✚ Line sowing of seeds (7-10cm) ✓ Irrigation must be provide to nursery every alternative days.
Onion	**Nursery stage**	**Poly house**	✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m^2) ✚ Line sowing of seeds (7-10cm) ✚ Irrigation must be provide to nursery every alternative days.
			✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Sowing stage**		✚ Variable, healthy, well mature and pure seeds should be sown.

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			✦ Optimum spacing for pole type 60 cm X 30 cm. ✦ Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Capsicum	**Nursery stage**	**Poly house**	✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	**Nursery stage**		✦ Nursery preparation for Brinjal. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
Chilli	**Nursery stage**		✦ Nursery preparation for tomato. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
Tomato	**Nursery stage**		✦ Nursery preparation for tomato. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and

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			conventional length. - Application of FYM (1.5-2.0 kg/ m^2) - Line sowing of seeds (7-10cm) - Irrigation must be provide to nursery every alternative days.
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
ANIMAL HUSBENDARY			
Pig	**All stages**		- Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. - 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. - Reduce concentrate diet up to 5%. - Provide adequate potable water. - In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs).
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	**All age group**		- In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. - Provide UMB/Molases if possible in the feed - Provide 10-30 ml of vitamin B-Complex in feed - 1st injection at 6-8 weeks of age, 2nd

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			injection after 6 months of 1st injection followed by annual vaccination under vet supervision. - Separate sick animals. - The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. - Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**Litter management**		- Provide preventive dose of anti-coccidial drugs to poultry. - Proper ventilation of shed. - Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water - Avoid overcrowding. - Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses. - Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. - Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. - Application of plankton inoculum from other ponds could help in development of plankton production.

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			▪ The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. ▪ Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. ▪ Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

District: Saiha **Period:** 01 November – 05 November, 2017

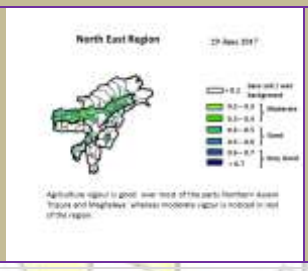
Bulletin No: - 746/2017/ Bulletin/Mizo **Date of issue:** 31st October, 2017

Parameters	01.11.2017	02.11.2017	03.11.2017	04.11.2017	05.11.2017
Rainfall (mm)	0	0	0	0	8
Max Temp (ºC)	29	29	29	28	28
Min Temp (ºC)	16	16	15	15	15
Cloud Coverage	Clear sky	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	98	99	99
Min RH (%)	38	37	56	48	57
Wind Speed (KmpH)	4	4	4	4	2
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- August 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 384.87mm (430.2mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

Weather summary of the past three days	01st November – 05th November, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC): 17-19ºC **Minimum Tem. (ºC):** 11-13ºC **Maximum RH (%):** 95-98% **Minimum RH (%):** 71-90% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2-3 km/hr **Rainfall:** 31.9 mm	Tun ni 1 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-29ºC a ni ang a. A vawh lai ber in 15-16ºC ni tura beisei a ni. RH san lai berin of 99% leh a hniam lai berin 38-56% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **08.0mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**A kui atanga a seng hun**		✚ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✚ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✚ Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✚ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
		Gummosis, citrus canker, citrus greening and Dieback	✚ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
		Fruit fly	✚ Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CROP			
COFFEE	**All stages**		**Nursery stage** ✚ Thlai chi thlak hma in *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✚ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✚ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✚ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✚ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	A hun takah leh fimkhhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	**A chin hun**		Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	**Bacterial Blight disease**		✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora blight	- A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani - Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	**Sowing stage**		- Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. - A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	**Sowing stage**		- A than a that theih nan nikhat danah tui pek thin tur ani. - Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBENDARY			
Pig	**All stages**		✚ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. ✚ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. ✚ Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.
	Adult stage	**Swine fever.**	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	**All age group**		• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	**Foot and Mouth Disease (FMD)**	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	**Litter management**		✚ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ✚ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.

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			✦ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ✦ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. ✦ Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. ✦ Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. ✦ Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. ✦ Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani.. ✦ Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

District: Serchhip **Period: 01 November – 05 November, 2017**

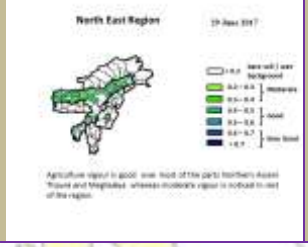
Bulletin No: - 746/2017/ Bulletin/English **Date of issue: 31st October, 2017**

Parameters	01.11.2017	02.11.2017	03.11.2017	04.11.2017	05.11.2017
Rainfall (mm)	0	0	5	5	0
Max Temp (ºC)	28	28	27	27	27
Min Temp (ºC)	14	14	13	15	14
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	100	100	91	99	99
Min RH (%)	33	31	45	79	79
Wind Speed (KmpH)	4	4	4	4	2
***Wind Direction**	E	N-E	E	N-E	N-E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- August 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 384.87mm (430.2mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

Weather summary of the past three days	Weather forecast valid from 01st November, 2017 To 05th November, 2017.
Maximum Tem. (ºC):18-20ºC **Minimum Tem. (ºC):**14-16ºC **Maximum RH (%):**94-98% **Minimum RH (%):**74-89% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2-4 km/hr **Rainfall:** 48.6 mm	There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 27-28ºC and 13-15ºC. Maximum relative humidity is expected in the range of 91-100% and minimum may from 33-79%. Wind direction would be easterly to northeasterly to easterly and northeasterly with the wind speed of 2-4 km per hour. Mainly clear will prevail during the next five days. ***Weekly cumulative rainfall:*** **10.0 mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Flowering to fruiting stage**		▪ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ▪ Medium to young seedling should be support by bamboo stake. ▪ Use split dose of fertilizer for normal growth and development. ▪ To increase the fruit set, spray 2, 4 – D @ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size). ▪ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
		Citrus cancar	▪ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ▪ Control minor infections limited to a small area of the tree by pruning away the affected parts. ▪ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	▪ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	**Harvesting stage**		▪ Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.

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			➢ The fruits should be marketed quickly to prevent loss in weight and their appearance. ➢ The rind becomes wrinkled on drying but the pulp remains in good condition for several days.
		Fruit fly	➢ Collect and burn all infected plant. ➢ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	**Fruiting stage**		➢ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. **Replanting of new seedling** ➢ Medium to young seedling should be support by bamboo stake. ➢ Replace dead plant with young seedlings. ➢ Fertilizer dose should be maintained. **Fruiting stage** ➢ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ➢ Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. ➢ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	**Vegetative stage**		➢ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the

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			channel for maintain field moisture. - Use grass or straw mulch to prevent from waterloss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	**Transplanting stage**		- Plough the field properly. - Make bun in the field and cover with black mulch to reduce water transpiration and also weed control. - Make hole in the upper side of the bun and mix FYM with soil properly. - Apply water in every holes of the bun. - Transplant young suckers in the bun.
CEREALS AND PULSE CROPS			
Kharif Rice	**Panicle Initiation stage**		- According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. - Due to high humidity, high temperature and less rainfall in plan region of the district probability of blast will be high. So apply Tubeconazole @ 1 ml/10 lt of water. - Maintain water level in the field and if possible one hand weeding should be done.
		Gandhi bug	- Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the Gandhi bug. - Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated.
		Rice leafroller	- Stop indiscriminate use of fertilizer. - Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy

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			damage.
Rabi Maize	**Sowing stage**		↓ Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. ↓ Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. ↓ If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage Greengram and blackgram	**Sowing**	**Zero tillage**	↓ Clean all debris from the *jhum* field. ↓ Open the furrow with of dao or dibbler or khurpee. ↓ Put recommended fertilizer dose and mix with soil. ↓ Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.
Zero tillage Soybean cultivation in *Jhum*	**Germination stage**	**Zero tillage**	↓ Thinning must be done where more population was observed. ↓ Apply 2% urea solution for better growth. ↓ Weeding and earthing up should be carried out.
Zero tillage Toria	**Sowing stage**	**Zero tillage**	↓ Due to availability of soil moisture in field, land preparation should be started for toria after rice harvest. It can be grown better in loamy soils having adequate provision of drainage. ↓ Clean all debris from the field. ↓ Open the furrow with of dao or dibbler or khurpee. ↓ Put recommended fertilizer dose and mix with soil. ↓ Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance. ↓ Sow certified seeds from a reliable

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✓ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✓ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✓ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Colocasia	**Harvesting stage**		✓ After this, irrigation has to be withheld to hasten maturity. ✓ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✓ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ✓ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	**Nursery stage**	**Land preparation**	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Raised bed, nursery bed solarisation. ✓ Bed should be 1m width and conventional length. ✓ Application of FYM (1.5-2.0 kg/ m^2) ✓ Line sowing of seeds (7-10cm) ✓ Irrigation must be provide to nursery every alternative days.
Onion	**Nursery stage**	**Poly house**	✓ Raised bed, nursery bed solarisation.

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			✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Sowing stage**		✦ Variable, healthy, well mature and pure seeds should be sown. ✦ Optimum spacing for pole type 60 cm X 30 cm. ✦ Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Capsicum	**Nursery stage**	**Poly house**	✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
			✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	**Nursery stage**		✦ Nursery preparation for Brinjal. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery

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			every alternative days.
Chilli	**Nursery stage**		✦ Nursery preparation for tomato. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
Tomato	**Nursery stage**		✦ Nursery preparation for tomato. ✦ Raised bed, nursery bed solarisation. ✦ Bed should be 1m width and conventional length. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Line sowing of seeds (7-10cm) ✦ Irrigation must be provide to nursery every alternative days.
		Damping off	✦ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. ✦ 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. ✦ Reduce concentrate diet up to 5%. ✦ Provide adequate potable water. ✦ In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs).
		Porcine Reproductive Respiratory	1. Culling of positive pigs or piglets.

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		Syndrome (PRRS).	
Cattle	**All age group**		✦ In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ✦ Provide UMB/Molases if possible in the feed ✦ Provide 10-30 ml of vitamin B-Complex in feed ✦ 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. ✦ Separate sick animals. ✦ The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. ✦ Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**Litter management**		✦ Provide preventive dose of anti-coccidial drugs to poultry. ✦ Proper ventilation of shed. ✦ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ✦ Avoid overcrowding. ✦ Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses. ✦ Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days:

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			RD R-2B strain. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. - Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. - Application of plankton inoculum from other ponds could help in development of plankton production. - The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. - Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. - Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

District: Serchhip **Period: 01 November – 05 November, 2017**

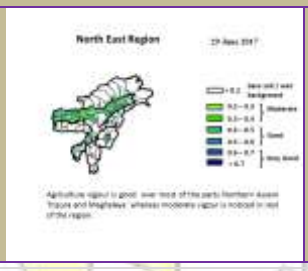
Bulletin No: - 746/2017/ Bulletin/Mizo **Date of issue: 31st October, 2017**

Parameters	01.11.2017	02.11.2017	03.11.2017	04.11.2017	05.11.2017
Rainfall (mm)	0	0	5	5	0
Max Temp (ºC)	28	28	27	27	27
Min Temp (ºC)	14	14	13	15	14
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	100	100	91	99	99
Min RH (%)	33	31	45	79	79
Wind Speed (KmpH)	4	4	4	4	2
*Wind Direction	E	N-E	E	N-E	N-E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- August 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 384.87mm (430.2mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

Weather summary of the past three days	01st November – 05th November, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):18-20ºC **Minimum Tem. (ºC):14-16ºC** **Maximum RH (%):94-98%** **Minimum RH (%):74-89%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2-4 km/hr** **Rainfall: 48.6 mm**	Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-28ºC a ni ang a. A vawh lai ber in 13-15ºC ni tura beisei a ni. RH san lai berin 91-100% leh a hniam lai berin 33-79% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:* 10.0mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**A kui atanga a seng hun**		✚ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✚ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✚ Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✚ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
		Gummosis, citrus canker, citrus greening and Dieback	✚ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
		Fruit fly	✚ Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CROP			
COFFEE	**All stages**		**Nursery stage** ✚ Thlai chi thlak hma in *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✚ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✚ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✚ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✚ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	A hun takah leh fimkhhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	**A chin hun**		Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	**Bacterial Blight disease**		✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora blight	- A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani - Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	**Sowing stage**		- Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. - A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	**Sowing stage**		- A than a that theih nan nikhat danah tui pek thin tur ani. - Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBENDARY			
Pig	**All stages**		✚ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. ✚ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. ✚ Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.
	Adult stage	**Swine fever.**	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	**All age group**		• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	**Foot and Mouth Disease (FMD)**	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	**Litter management**		✚ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ✚ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.

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			✦ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ✦ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. ✦ Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. ✦ Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. ✦ Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. ✦ Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani.. ✦ Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

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