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:** 18 August – 22 August, 2018

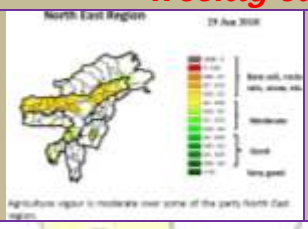
Bulletin No: - 817/2018/ Bulletin/English **Date of issue:** 17th August, 2018

Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	74	44	20	31	12
Max Temp (ºC)	30	30	30	30	31
Min Temp (ºC)	16	16	17	17	17
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	99	100	100	94
Min RH (%)	67	65	72	60	47
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	N-E	N-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- July 1-31, 2018 (*Percent of deviation from normal in parenthesis*)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 18thAugust, 2018 To 22nd August, 2018.
Maximum Tem. (ºC):28-29ºC **Minimum Tem. (ºC):**17-19ºC **Maximum RH (%):**98-100% **Minimum RH (%):**81-93% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 3.24 km/hr **Rainfall:** 124.6 mm	There are chances of moderate to heavy and very heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-31ºC and 16-17ºC. Maximum relative humidity is expected in the range of 94-100% and minimum may from 47-72%. Wind direction would be northeasterly to easterly to northeasterly and easterly with the wind speed of 2 km per hour. Manly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **181.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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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 **STAR FRUIT** **PLUM AND PEACH**	**Nursery and gap filling stage**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly. **By seeds:** Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide every alternate days. Potting mixture of soil, sand and FYM or compost should be in proper ratio. Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. In the citrus belt, trees can be planted at any time; however, pre-monsoon is the best time for transplant or gap filling. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	**Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water. **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water.
PLANTATION CROP			
COFFEE	**Berry development stage**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the

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			field properly. - Coffee should be grown as a single stem system. Pruning is required to: - Supply good healthy wood for the next season's crop; - maintain the correct balance between leaf area and crop; - Prevent overbearing and dieback; - Reduce biennial bearing; - Maintain good tree shape. **De suckering-** - De-sucker to maintain a single stem system and avoid competition from suckers - Remove 'fly crop' fruit (early fruit which compete with strong plant/root development) as they appear. **Weeding** - Weeding or basin clearing must be done for better growth and development.
Rubber	**Transplanting and gap filling**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly. - Start planting newly established place. - Weeding must be done. - Apply 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. - Basin clearing of all established plant. - Rain cap can use for tapping plant - Start intercropping in newly established orchard.
Oil plam	**Vegetative/ Harvesting stage**		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be

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			apply at time of planting to each pit as basal dose application. - Provide irrigation every alternate day or use straw mulch. - Basin clearing of all plant. - Rain cap can use for tapping plant ❖ Start intercropping in newly established orchard. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	**Flowering to fruiting stage**		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Trail semi hard wood stem to bower structure - Clean near the base of the plant. - According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Medium to young seedling should be support by bamboo stake.
CEREALS AND PULSE CROPS			
Maize	**Vegetative stage**		- According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Weeding and fertilizer application must be done. - Probability of stem borer infestation will be high. Spray any systemic insecticide. - Use rat trap to reduce rat damage in field.
Kharif Rice	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be high

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			and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Water level shall be maintained for better transplant. - Plough the field two to three times. - According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. - Transplant 2-3 seedlings in one place for avoid gap filling. - Spacing should be 20 cm row to row and 15 cm plant to plant. - Keep some seedlings in nursery or corner of the field for gap filling.
***Jhum* Rice**	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and stability in root zone. - Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	**Vegetative stage**		- According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Earthing up soil for better growth and stability in root zone. - Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and

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			stability in root zone. - Use split dose of any nitrogenous fertilizer for better growth. - Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceous crop	**Harvesting stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Harvest all the produces and keep seed for next season - 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 against fruit fly and pumpkin beetle.
Chilli	**Vegetative to flowering stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Harvest all the produces and keep seed for next season - 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 against fruit fly and pumpkin beetle.
		Fruit fly	- 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.
Cowpea	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and stability in root zone.

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			✓ Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	**Vegetative stage**		✓ According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. ✓ Earthing up soil for better growth and stability in root zone. ✓ Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	**Vegetative stage**		✓ According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. ✓ Earthing up soil for better growth and stability in root zone. ✓ Apply use split dose of any nitrogenous fertilizer for better growth.
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

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			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. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for

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		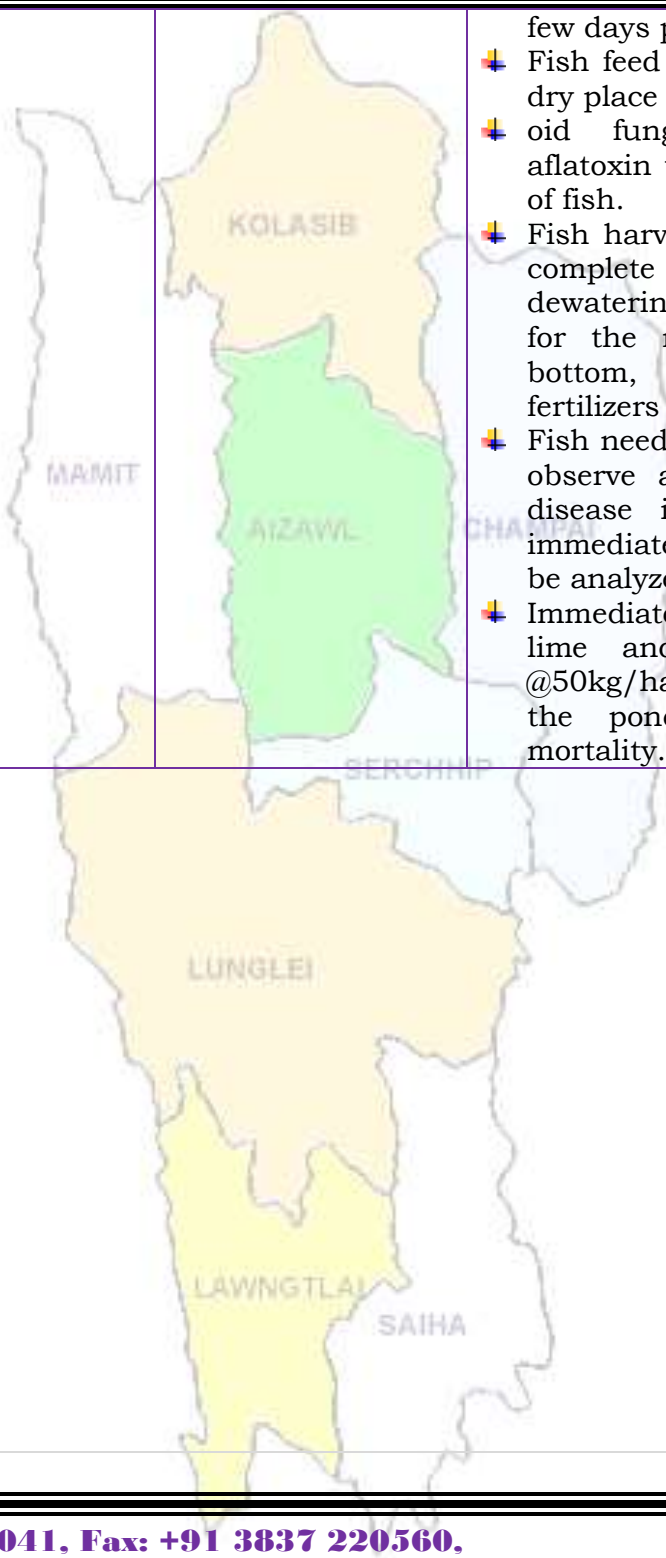	few days prior to feeding. • Fish feed should be stored in cool and dry place to av • oid fungal growth that releases aflatoxin which could lead to mortality of fish. • Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. • Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. • Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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Bulletin No: - 817/2018/ Bulletin/Mizo **Date of issue: 17th August, 2018**

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Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	N-E	N-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- July 1-31, 2018 (*Percent of deviation from normal in parenthesis*)

Aizawl- 412.50mm (341.8mm) | Champhai- 105.47mm (250.30mm) | Saiha- 307.78 mm (87.2mm) | Kolasib- 331.10mm (380.9mm)

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Weather summary of the past three days

Maximum Tem. (ºC):28-29ºC
Minimum Tem. (ºC):17-19ºC
Maximum RH (%):98-100%
Minimum RH (%):81-93%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.24 km/hr

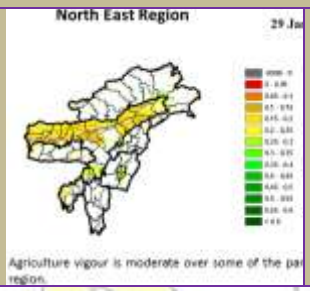
Rainfall: 124.6 mm

18th August – 22nd August, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31ºC a ni ang a. A vawh lai ber in 16-17ºC ni tura beisei a ni. RH san lai berin 94-100% leh a hniam lai berin 47-72% ni tur a rin niin. Thli hi darkar khatah 2 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: **181.0mm**

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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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: Champhai **Period:** 18 August – 22 August, 2018

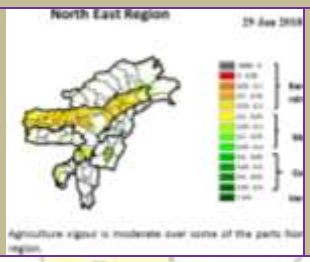
Bulletin No: - 817/2018/ Bulletin/English **Date of issue:** 17th August, 2018

Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	30	23	21	26	10
Max Temp (ºC)	30	30	30	30	31
Min Temp (ºC)	16	16	17	17	17
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	94
Min RH (%)	71	59	74	60	56
Wind Speed (KmpH)	2	2	2	4	4
*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- July 1-31, 2018 (*Percent of deviation from normal in parenthesis*)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 18thAugust, 2018 To 22nd August, 2018.
Maximum Tem. (ºC):27-28ºC **Minimum Tem. (ºC):**17-18ºC **Maximum RH (%):**96-99% **Minimum RH (%):**82-95% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2.45 km/hr **Rainfall:** 127.3 mm	There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-31ºC and 16-17ºC. Maximum relative humidity is expected in the range of 94-100% and minimum may from 56-74%. Wind direction would be Easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **110.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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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 **STAR FRUIT** **PLUM AND PEACH**	**Nursery and gap filling stage**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly. **By seeds:** Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide every alternate days. Potting mixture of soil, sand and FYM or compost should be in proper ratio. Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. In the citrus belt, trees can be planted at any time; however, pre-monsoon is the best time for transplant or gap filling. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	**Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water. **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water.
PLANTATION CROP			
COFFEE	**Berry development stage**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the

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			field properly. - Coffee should be grown as a single stem system. Pruning is required to: - Supply good healthy wood for the next season's crop; - maintain the correct balance between leaf area and crop; - Prevent overbearing and dieback; - Reduce biennial bearing; - Maintain good tree shape. **De suckering-** - De-sucker to maintain a single stem system and avoid competition from suckers - Remove 'fly crop' fruit (early fruit which compete with strong plant/root development) as they appear. **Weeding** - Weeding or basin clearing must be done for better growth and development.
Rubber	**Transplanting and gap filling**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly. - Start planting newly established place. - Weeding must be done. - Apply 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. - Basin clearing of all established plant. - Rain cap can use for tapping plant - Start intercropping in newly established orchard.
Oil plam	**Vegetative/ Harvesting stage**		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be

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			apply at time of planting to each pit as basal dose application. - Provide irrigation every alternate day or use straw mulch. - Basin clearing of all plant. - Rain cap can use for tapping plant ❖ Start intercropping in newly established orchard. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	**Flowering to fruiting stage**		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Trail semi hard wood stem to bower structure - Clean near the base of the plant. - According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Medium to young seedling should be support by bamboo stake.
CEREALS AND PULSE CROPS			
Maize	**Vegetative stage**		- According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Weeding and fertilizer application must be done. - Probability of stem borer infestation will be high. Spray any systemic insecticide. - Use rat trap to reduce rat damage in field.
Kharif Rice	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be high

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			and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Water level shall be maintained for better transplant. - Plough the field two to three times. - According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. - Transplant 2-3 seedlings in one place for avoid gap filling. - Spacing should be 20 cm row to row and 15 cm plant to plant. - Keep some seedlings in nursery or corner of the field for gap filling.
***Jhum* Rice**	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and stability in root zone. - Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	**Vegetative stage**		- According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Earthing up soil for better growth and stability in root zone. - Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and

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			stability in root zone. - Use split dose of any nitrogenous fertilizer for better growth. - Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceous crop	**Harvesting stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Harvest all the produces and keep seed for next season - 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 against fruit fly and pumpkin beetle.
Chilli	**Vegetative to flowering stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Harvest all the produces and keep seed for next season - 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 against fruit fly and pumpkin beetle.
		Fruit fly	- 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.
Cowpea	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and stability in root zone.

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			✦ Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	**Vegetative stage**		✦ According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. ✦ Earthing up soil for better growth and stability in root zone. ✦ Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	**Vegetative stage**		✦ According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. ✦ Earthing up soil for better growth and stability in root zone. ✦ Apply use split dose of any nitrogenous fertilizer for better growth.
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

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			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. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for

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		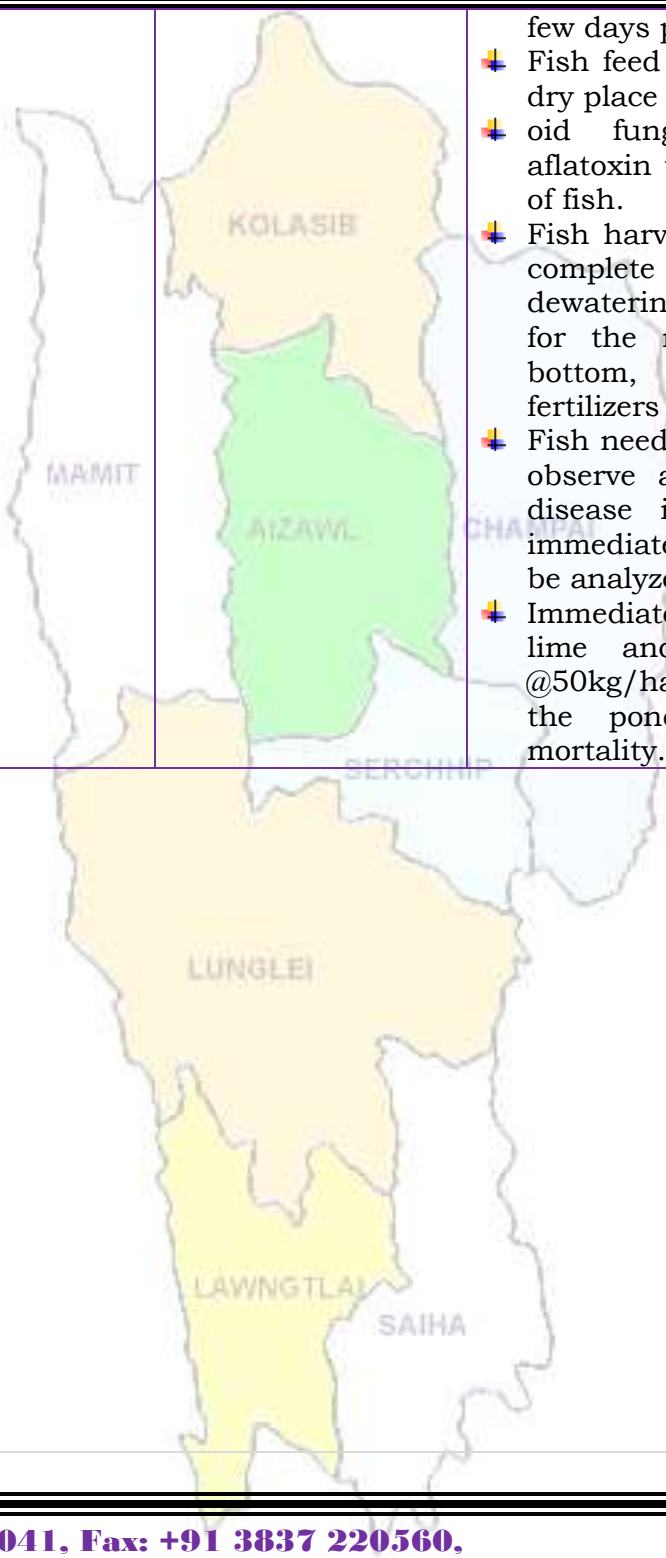	few days prior to feeding. - Fish feed should be stored in cool and dry place to av - oid fungal growth that releases aflatoxin which could lead to mortality of fish. - Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. - Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. - Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Champhai **Period:** 18 August – 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/Mizo **Date of issue:** 17th August, 2018

Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
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Min Temp (ºC)	16	16	17	17	17
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	94
Min RH (%)	71	59	74	60	56
Wind Speed (KmpH)	2	2	2	4	4
*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- July 1-31, 2018 (*Percent of deviation from normal in parenthesis*)

Aizawl- 412.50mm (341.8mm) | Champhai- 105.47mm (250.30mm) | Saiha- 307.78 mm (87.2mm) | Kolasib- 331.10mm (380.9mm)

Lawngtlai-291.28mm (285.5mm) | Lunglei-326.52mm (186.21mm) | Mamit-204.84mm (442.80mm) | Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

Maximum Tem. (ºC):27-28ºC
Minimum Tem. (ºC):17-18ºC
Maximum RH (%):96-99%
Minimum RH (%):82-95%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2.45 km/hr

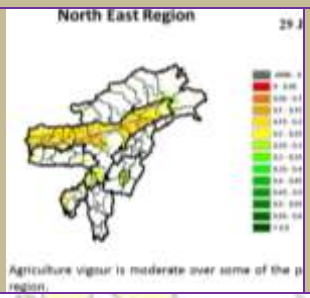
Rainfall: 127.3 mm

18th August – 22nd August, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31ºC a ni ang a. A vawh lai ber in 16-17ºC ni tura beisei a ni. RH san lai berin 100%leh a hniam lai berin 56-74% 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: **110.0mm**

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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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:** 18 August – 22 August, 2018

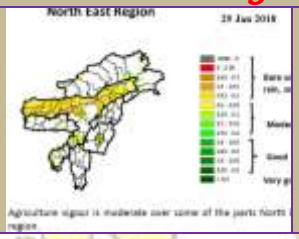
Bulletin No: - 817/2018/ Bulletin/English **Date of issue:** 17th August, 2018

Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	54	24	20	17	12
Max Temp (ºC)	32	32	32	33	33
Min Temp (ºC)	18	19	19	20	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	99	100	100	99
Min RH (%)	57	61	61	56	44
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	N-E	S-W	N-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- July 1-31, 2018 (*Percent of deviation from normal in parenthesis*)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 18thAugust, 2018 To 22nd August, 2018.
Maximum Tem. (ºC):26-28ºC **Minimum Tem. (ºC):**20-22ºC **Maximum RH (%):**98-100% **Minimum RH (%):**79-94% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2.35 km/hr **Rainfall:** 141.8 mm	There are chances of moderate to heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 32-33ºC and 18-20ºC. Maximum relative humidity is expected in the range of 99-100% and minimum may from 44-61%. Wind direction would be southeasterly to northeasterly to southwesterly to northeasterly and easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **127.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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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 **STAR FRUIT** **PLUM AND PEACH**	**Nursery and gap filling stage**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly. **By seeds:** Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide every alternate days. Potting mixture of soil, sand and FYM or compost should be in proper ratio. Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. In the citrus belt, trees can be planted at any time; however, pre-monsoon is the best time for transplant or gap filling. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	**Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water. **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water.
PLANTATION CROP			
COFFEE	**Berry development stage**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the

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			field properly. - Coffee should be grown as a single stem system. Pruning is required to: - Supply good healthy wood for the next season's crop; - maintain the correct balance between leaf area and crop; - Prevent overbearing and dieback; - Reduce biennial bearing; - Maintain good tree shape. **De suckering-** - De-sucker to maintain a single stem system and avoid competition from suckers - Remove 'fly crop' fruit (early fruit which compete with strong plant/root development) as they appear. **Weeding** - Weeding or basin clearing must be done for better growth and development.
Rubber	**Transplanting and gap filling**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly. - Start planting newly established place. - Weeding must be done. - Apply 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. - Basin clearing of all established plant. - Rain cap can use for tapping plant - Start intercropping in newly established orchard.
Oil plam	**Vegetative/ Harvesting stage**		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be

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			apply at time of planting to each pit as basal dose application. - Provide irrigation every alternate day or use straw mulch. - Basin clearing of all plant. - Rain cap can use for tapping plant ❖ Start intercropping in newly established orchard. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	**Flowering to fruiting stage**		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Trail semi hard wood stem to bower structure - Clean near the base of the plant. - According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Medium to young seedling should be support by bamboo stake.
CEREALS AND PULSE CROPS			
Maize	**Vegetative stage**		- According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Weeding and fertilizer application must be done. - Probability of stem borer infestation will be high. Spray any systemic insecticide. - Use rat trap to reduce rat damage in field.
Kharif Rice	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be high

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			and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Water level shall be maintained for better transplant. - Plough the field two to three times. - According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. - Transplant 2-3 seedlings in one place for avoid gap filling. - Spacing should be 20 cm row to row and 15 cm plant to plant. - Keep some seedlings in nursery or corner of the field for gap filling.
***Jhum* Rice**	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and stability in root zone. - Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	**Vegetative stage**		- According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Earthing up soil for better growth and stability in root zone. - Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and

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			stability in root zone. - Use split dose of any nitrogenous fertilizer for better growth. - Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceous crop	**Harvesting stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Harvest all the produces and keep seed for next season - 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 against fruit fly and pumpkin beetle.
Chilli	**Vegetative to flowering stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Harvest all the produces and keep seed for next season - 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 against fruit fly and pumpkin beetle.
		Fruit fly	- 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.
Cowpea	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and stability in root zone.

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			✦ Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	**Vegetative stage**		✦ According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. ✦ Earthing up soil for better growth and stability in root zone. ✦ Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	**Vegetative stage**		✦ According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. ✦ Earthing up soil for better growth and stability in root zone. ✦ Apply use split dose of any nitrogenous fertilizer for better growth.
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

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			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. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for

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		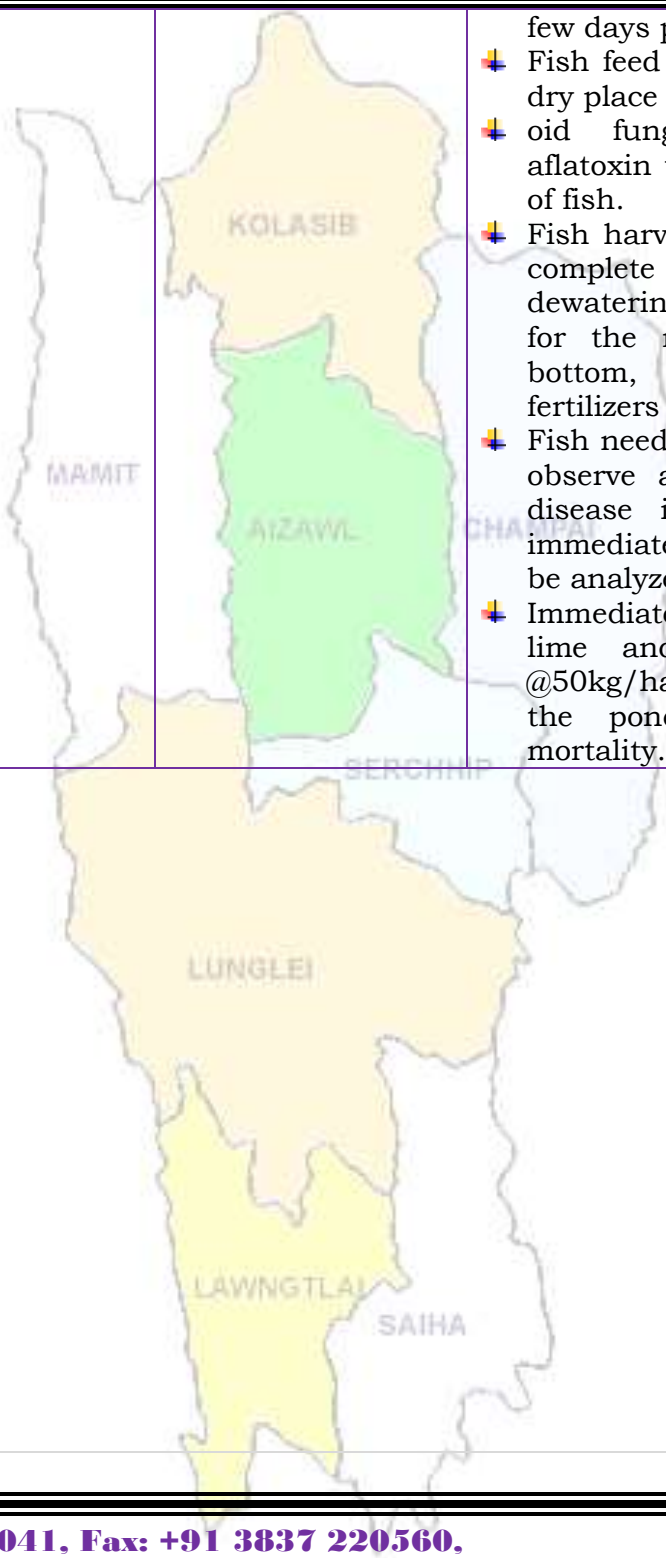	few days prior to feeding. • Fish feed should be stored in cool and dry place to av • oid fungal growth that releases aflatoxin which could lead to mortality of fish. • Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. • Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. • Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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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:** 18 August – 22 August, 2018

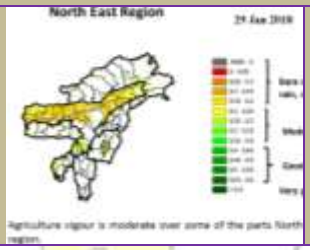
Bulletin No: - 817/2018/ Bulletin/Mizo **Date of issue:** 17th August, 2018

Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	54	24	20	17	12
Max Temp (ºC)	32	32	32	33	33
Min Temp (ºC)	18	19	19	20	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	99	100	100	99
Min RH (%)	57	61	61	56	44
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	N-E	S-W	N-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- July 1-31, 2018 (*Percent of deviation from normal in parenthesis*)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days	18th August – 22nd August, 2018 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):26-28ºC **Minimum Tem. (ºC):**20-22ºC **Maximum RH (%):**98-100% **Minimum RH (%):**79-94% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2.35 km/hr **Rainfall:** 141.8 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-33ºC a ni ang a. A vawh lai ber in 18-20ºC ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 44-61% ni tur a rin niin. Thli hi darkar khatah 2 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:*** **127.0mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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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: Lawngtlai **Period:** 18 August – 22 August, 2018

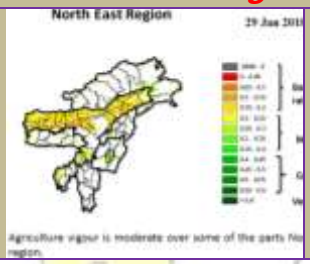
Bulletin No: - 817/2018/ Bulletin/English **Date of issue:** 17th August, 2018

Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	24	41	16	21	9
Max Temp (ºC)	30	30	30	30	31
Min Temp (ºC)	16	16	17	17	17
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	98	99	100	96
Min RH (%)	63	61	57	66	59
Wind Speed (KmpH)	2	2	2	2	4
*Wind Direction	E	E	N-E	N-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- July 1-31, 2018 (*Percent of deviation from normal in parenthesis*)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 18thAugust, 2018 To 22nd August, 2018.
Maximum Tem. (ºC):27-28ºC **Minimum Tem. (ºC):**16-19ºC **Maximum RH (%):**97-99% **Minimum RH (%):**81-92% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 3.06 km/hr **Rainfall:** 112.4 mm	There are chances of moderate to light and heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-31ºC and 16-17ºC. Maximum relative humidity is expected in the range of 96-100% and minimum may from 57-66%. Wind direction would be easterly to northeasterly and easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **111.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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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 **STAR FRUIT** **PLUM AND PEACH**	**Nursery and gap filling stage**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly. • **By seeds:** Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide every alternate days. • Potting mixture of soil, sand and FYM or compost should be in proper ratio. • Application of split dose of fertilizer 600: 200:100 (g/pt). • Only certified seed should be used. • Stagnation of water in beds should be avoided. • In the citrus belt, trees can be planted at any time; however, pre-monsoon is the best time for transplant or gap filling. • Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	• **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water. • **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. • **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water.
PLANTATION CROP			
COFFEE	**Berry development stage**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the

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			field properly. - Coffee should be grown as a single stem system. Pruning is required to: - Supply good healthy wood for the next season's crop; - maintain the correct balance between leaf area and crop; - Prevent overbearing and dieback; - Reduce biennial bearing; - Maintain good tree shape. **De suckering-** - De-sucker to maintain a single stem system and avoid competition from suckers - Remove 'fly crop' fruit (early fruit which compete with strong plant/root development) as they appear. **Weeding** - Weeding or basin clearing must be done for better growth and development.
Rubber	**Transplanting and gap filling**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly. - Start planting newly established place. - Weeding must be done. - Apply 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. - Basin clearing of all established plant. - Rain cap can use for tapping plant - Start intercropping in newly established orchard.
Oil plam	**Vegetative/ Harvesting stage**		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be

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			apply at time of planting to each pit as basal dose application. - Provide irrigation every alternate day or use straw mulch. - Basin clearing of all plant. - Rain cap can use for tapping plant ❖ Start intercropping in newly established orchard. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	**Flowering to fruiting stage**		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Trail semi hard wood stem to bower structure - Clean near the base of the plant. - According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Medium to young seedling should be support by bamboo stake.
CEREALS AND PULSE CROPS			
Maize	**Vegetative stage**		- According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Weeding and fertilizer application must be done. - Probability of stem borer infestation will be high. Spray any systemic insecticide. - Use rat trap to reduce rat damage in field.
Kharif Rice	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be high

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			and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Water level shall be maintained for better transplant. - Plough the field two to three times. - According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. - Transplant 2-3 seedlings in one place for avoid gap filling. - Spacing should be 20 cm row to row and 15 cm plant to plant. - Keep some seedlings in nursery or corner of the field for gap filling.
***Jhum* Rice**	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and stability in root zone. - Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	**Vegetative stage**		- According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Earthing up soil for better growth and stability in root zone. - Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and

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			stability in root zone. - Use split dose of any nitrogenous fertilizer for better growth. - Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceous crop	**Harvesting stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Harvest all the produces and keep seed for next season - 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 against fruit fly and pumpkin beetle.
Chilli	**Vegetative to flowering stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Harvest all the produces and keep seed for next season - 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 against fruit fly and pumpkin beetle.
		Fruit fly	- 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.
Cowpea	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and stability in root zone.

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			✦ Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	**Vegetative stage**		✦ According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. ✦ Earthing up soil for better growth and stability in root zone. ✦ Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	**Vegetative stage**		✦ According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. ✦ Earthing up soil for better growth and stability in root zone. ✦ Apply use split dose of any nitrogenous fertilizer for better growth.
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

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			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. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for

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		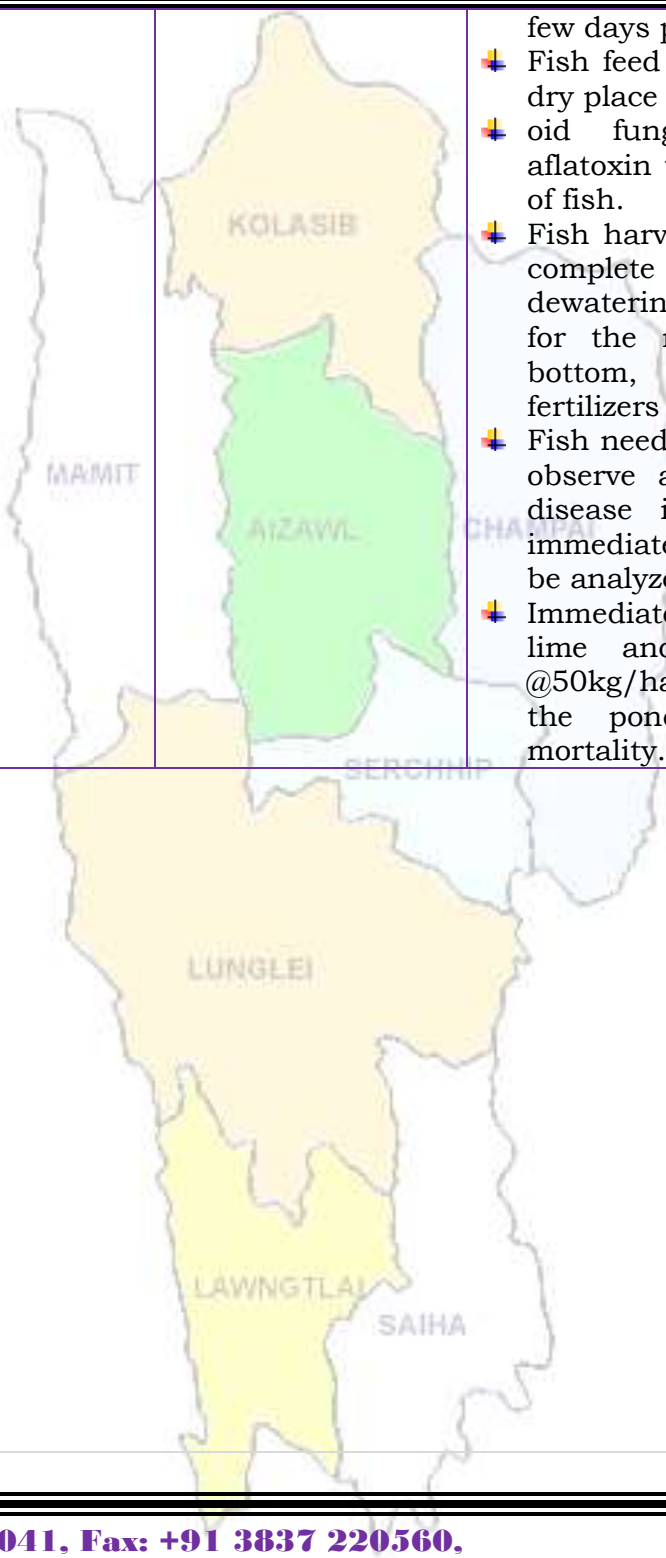	few days prior to feeding. • Fish feed should be stored in cool and dry place to av • oid fungal growth that releases aflatoxin which could lead to mortality of fish. • Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. • Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. • Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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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:** 18 August – 22 August, 2018

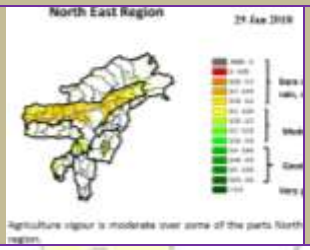
Bulletin No: - 817/2018/ Bulletin/Mizo **Date of issue:** 17th August, 2018

Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	24	41	16	21	9
Max Temp (ºC)	30	30	30	30	31
Min Temp (ºC)	16	16	17	17	17
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	98	99	100	96
Min RH (%)	63	61	57	66	59
Wind Speed (KmpH)	2	2	2	2	4
*Wind Direction	E	E	N-E	N-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- July 1-31, 2018 (*Percent of deviation from normal in parenthesis*)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days	18th August – 22nd August, 2018 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):27-28ºC **Minimum Tem. (ºC):**16-19ºC **Maximum RH (%):**97-99% **Minimum RH (%):**81-92% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 3.06 km/hr **Rainfall:** 112.4 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31ºC a ni ang a. A vawh lai ber in 16-17ºC ni tura beisei a ni. RH san lai berin of 96-100% leh a hniam lai berin 57-66% 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:*** **111.0mm**
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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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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:** 18 August – 22 August, 2018

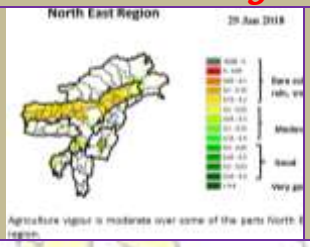
Bulletin No: - 817/2018/ Bulletin/English **Date of issue:** 17th August, 2018

Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	44	56	23	50	10
Max Temp (ºC)	32	32	33	33	32
Min Temp (ºC)	20	20	21	21	21
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	99	100	100	97
Min RH (%)	70	65	64	64	52
Wind Speed (KmpH)	2	2	2	2	3
*Wind Direction	E	E	N-E	S-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- July 1-31, 2018 (*Percent of deviation from normal in parenthesis*)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 18thAugust, 2018 To 22nd August, 2018.
Maximum Tem. (ºC):24-26ºC **Minimum Tem. (ºC):**14-16ºC **Maximum RH (%):**98-99% **Minimum RH (%):**82-92% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 3.06 km/hr **Rainfall:** 105.3 mm	There are chances of moderate to light and heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 32-33ºC and 20-21ºC. Maximum relative humidity is expected in the range of 97-100% and minimum may from 52-70%. Wind direction would be easterly to northeasterly to southeasterly and easterly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **183.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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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 **STAR FRUIT** **PLUM AND PEACH**	**Nursery and gap filling stage**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly. **By seeds:** Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide every alternate days. Potting mixture of soil, sand and FYM or compost should be in proper ratio. Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. In the citrus belt, trees can be planted at any time; however, pre-monsoon is the best time for transplant or gap filling. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	**Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water. **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water.
PLANTATION CROP			
COFFEE	**Berry development stage**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the

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			field properly. - Coffee should be grown as a single stem system. Pruning is required to: - Supply good healthy wood for the next season's crop; - maintain the correct balance between leaf area and crop; - Prevent overbearing and dieback; - Reduce biennial bearing; - Maintain good tree shape. **De suckering-** - De-sucker to maintain a single stem system and avoid competition from suckers - Remove 'fly crop' fruit (early fruit which compete with strong plant/root development) as they appear. **Weeding** - Weeding or basin clearing must be done for better growth and development.
Rubber	**Transplanting and gap filling**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly. - Start planting newly established place. - Weeding must be done. - Apply 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. - Basin clearing of all established plant. - Rain cap can use for tapping plant - Start intercropping in newly established orchard.
Oil plam	**Vegetative/ Harvesting stage**		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be

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			apply at time of planting to each pit as basal dose application. - Provide irrigation every alternate day or use straw mulch. - Basin clearing of all plant. - Rain cap can use for tapping plant ❖ Start intercropping in newly established orchard. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	**Flowering to fruiting stage**		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Trail semi hard wood stem to bower structure - Clean near the base of the plant. - According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Medium to young seedling should be support by bamboo stake.
CEREALS AND PULSE CROPS			
Maize	**Vegetative stage**		- According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Weeding and fertilizer application must be done. - Probability of stem borer infestation will be high. Spray any systemic insecticide. - Use rat trap to reduce rat damage in field.
Kharif Rice	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be high

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			and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Water level shall be maintained for better transplant. - Plough the field two to three times. - According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. - Transplant 2-3 seedlings in one place for avoid gap filling. - Spacing should be 20 cm row to row and 15 cm plant to plant. - Keep some seedlings in nursery or corner of the field for gap filling.
***Jhum* Rice**	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and stability in root zone. - Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	**Vegetative stage**		- According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Earthing up soil for better growth and stability in root zone. - Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and

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			stability in root zone. - Use split dose of any nitrogenous fertilizer for better growth. - Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceous crop	**Harvesting stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Harvest all the produces and keep seed for next season - 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 against fruit fly and pumpkin beetle.
Chilli	**Vegetative to flowering stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Harvest all the produces and keep seed for next season - 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 against fruit fly and pumpkin beetle.
		Fruit fly	- 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.
Cowpea	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and stability in root zone.

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			✦ Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	**Vegetative stage**		✦ According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. ✦ Earthing up soil for better growth and stability in root zone. ✦ Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	**Vegetative stage**		✦ According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. ✦ Earthing up soil for better growth and stability in root zone. ✦ Apply use split dose of any nitrogenous fertilizer for better growth.
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

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			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. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for

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		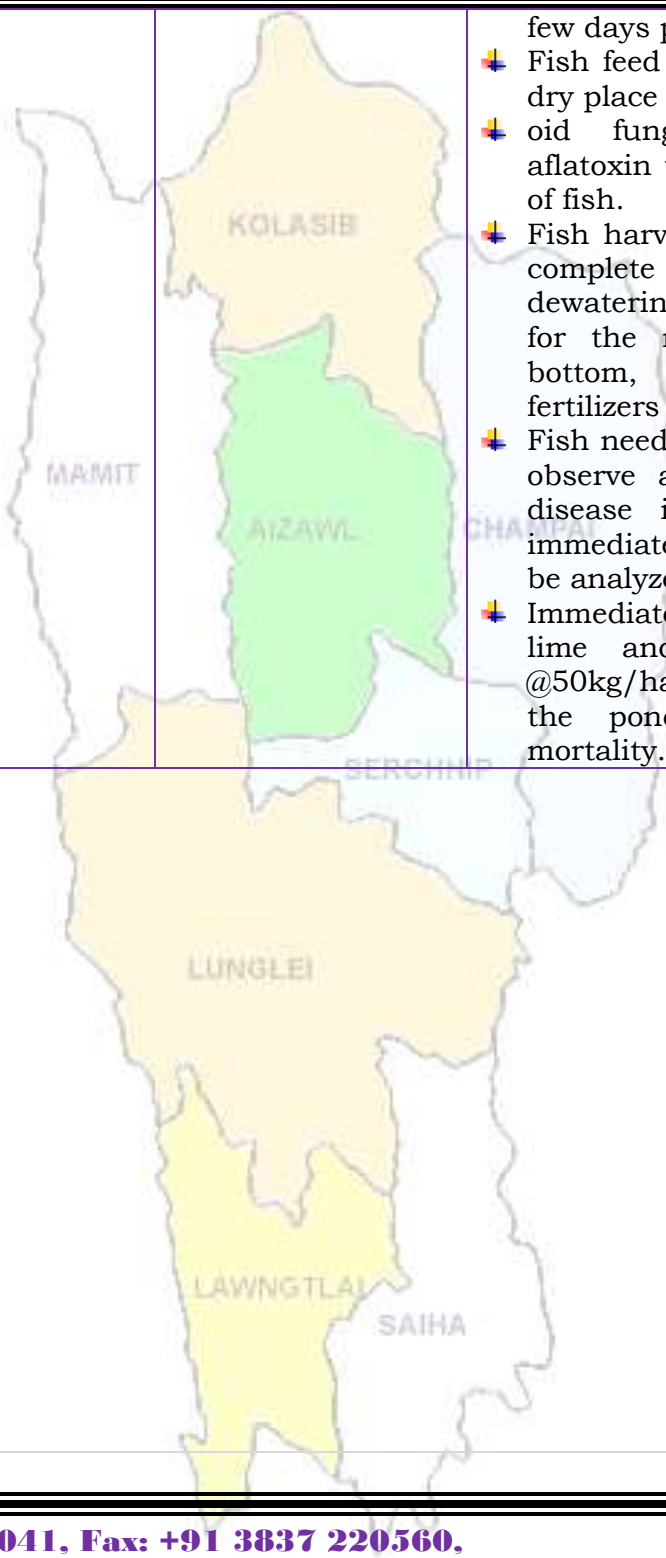	few days prior to feeding. - Fish feed should be stored in cool and dry place to av - oid fungal growth that releases aflatoxin which could lead to mortality of fish. - Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. - Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. - Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Lunglei **Period: 18 August – 22 August, 2018**

Bulletin No: - 817/2018/ Bulletin/Mizo **Date of issue: 17th August, 2018**

Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
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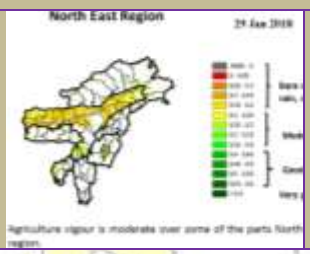
Max RH (%)	100	99	100	100	97
Min RH (%)	70	65	64	64	52
Wind Speed (KmpH)	2	2	2	2	3
*Wind Direction	E	E	N-E	S-E	E

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- July 1-31, 2018 (*Percent of deviation from normal in parenthesis*)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days	18th August – 22nd August, 2018 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):24-26ºC **Minimum Tem. (ºC):14-16ºC** **Maximum RH (%):98-99%** **Minimum RH (%):82-92%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 3.06 km/hr** **Rainfall: 105.3 mm**	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-33ºC a ni ang a. A vawh lai ber in 20-21ºC ni tura beisei a ni. RH san lai berin 97-100% leh a hniam lai berin 52-70% ni tur a rin niin. Thli hi darkar khatah 2-3 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:*** **183.0mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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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: Mamit **Period: 18 August – 22 August, 2018**

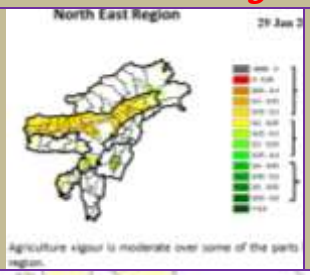
Bulletin No: - 817/2018/ Bulletin/English **Date of issue: 17th August, 2018**

Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	68	32	24	23	11
Max Temp (ºC)	30	30	31	31	31
Min Temp (ºC)	23	23	24	24	24
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	99	100	100	98
Min RH (%)	58	72	71	56	42
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	S-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- July 1-31, 2018 (*Percent of deviation from normal in parenthesis*)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 18thAugust, 2018 To 22nd August, 2018.
Maximum Tem. (ºC):29-30ºC **Minimum Tem. (ºC):18-20ºC** **Maximum RH (%):98-100%** **Minimum RH (%):78-93%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 3.02 km/hr** **Rainfall: 125.1 mm**	There are chances of moderate to light and very heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-31ºC and 23-24ºC. Maximum relative humidity is expected in the range of 98-100% and minimum may from 42-72%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 2 km per hour. Manly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **158.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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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 **STAR FRUIT** **PLUM AND PEACH**	**Nursery and gap filling stage**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly. **By seeds:** Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide every alternate days. Potting mixture of soil, sand and FYM or compost should be in proper ratio. Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. In the citrus belt, trees can be planted at any time; however, pre-monsoon is the best time for transplant or gap filling. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	**Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water. **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water.
PLANTATION CROP			
COFFEE	**Berry development stage**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the

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			field properly. - Coffee should be grown as a single stem system. Pruning is required to: - Supply good healthy wood for the next season's crop; - maintain the correct balance between leaf area and crop; - Prevent overbearing and dieback; - Reduce biennial bearing; - Maintain good tree shape. **De suckering-** - De-sucker to maintain a single stem system and avoid competition from suckers - Remove 'fly crop' fruit (early fruit which compete with strong plant/root development) as they appear. **Weeding** - Weeding or basin clearing must be done for better growth and development.
Rubber	**Transplanting and gap filling**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly. - Start planting newly established place. - Weeding must be done. - Apply 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. - Basin clearing of all established plant. - Rain cap can use for tapping plant - Start intercropping in newly established orchard.
Oil plam	**Vegetative/ Harvesting stage**		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be

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			apply at time of planting to each pit as basal dose application. - Provide irrigation every alternate day or use straw mulch. - Basin clearing of all plant. - Rain cap can use for tapping plant ❖ Start intercropping in newly established orchard. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	**Flowering to fruiting stage**		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Trail semi hard wood stem to bower structure - Clean near the base of the plant. - According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Medium to young seedling should be support by bamboo stake.
CEREALS AND PULSE CROPS			
Maize	**Vegetative stage**		- According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Weeding and fertilizer application must be done. - Probability of stem borer infestation will be high. Spray any systemic insecticide. - Use rat trap to reduce rat damage in field.
Kharif Rice	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be high

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			and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Water level shall be maintained for better transplant. - Plough the field two to three times. - According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. - Transplant 2-3 seedlings in one place for avoid gap filling. - Spacing should be 20 cm row to row and 15 cm plant to plant. - Keep some seedlings in nursery or corner of the field for gap filling.
***Jhum* Rice**	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and stability in root zone. - Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	**Vegetative stage**		- According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Earthing up soil for better growth and stability in root zone. - Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and

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			stability in root zone. - Use split dose of any nitrogenous fertilizer for better growth. - Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceous crop	**Harvesting stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Harvest all the produces and keep seed for next season - 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 against fruit fly and pumpkin beetle.
Chilli	**Vegetative to flowering stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Harvest all the produces and keep seed for next season - 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 against fruit fly and pumpkin beetle.
		Fruit fly	- 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.
Cowpea	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and stability in root zone.

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			✦ Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	**Vegetative stage**		✦ According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. ✦ Earthing up soil for better growth and stability in root zone. ✦ Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	**Vegetative stage**		✦ According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. ✦ Earthing up soil for better growth and stability in root zone. ✦ Apply use split dose of any nitrogenous fertilizer for better growth.
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

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			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. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for

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		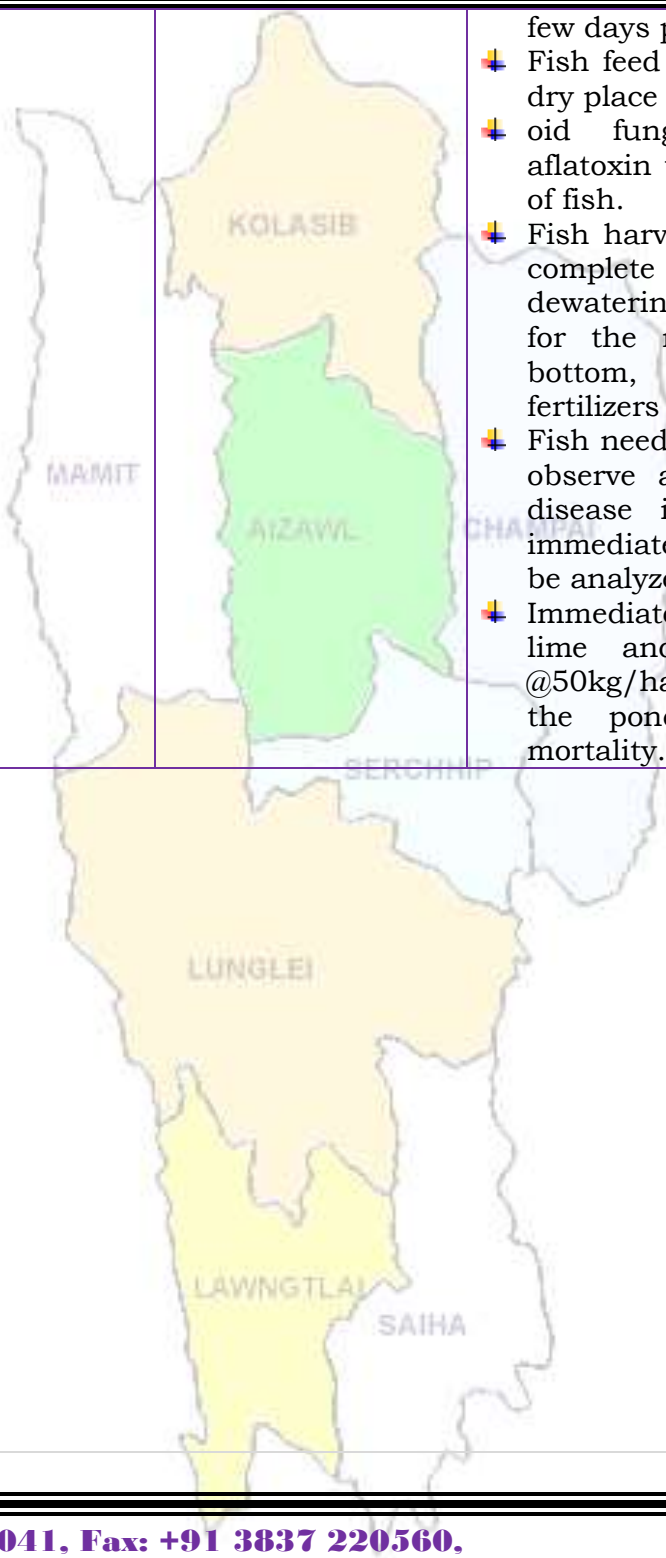	few days prior to feeding. • Fish feed should be stored in cool and dry place to av • oid fungal growth that releases aflatoxin which could lead to mortality of fish. • Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. • Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. • Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Mamit **Period:** 18 August – 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/Mizo **Date of issue:** 17th August, 2018

Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
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Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	S-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- July 1-31, 2018 (*Percent of deviation from normal in parenthesis*)

Aizawl- 412.50mm (341.8mm) | Champhai- 105.47mm (250.30mm) | Saiha- 307.78 mm (87.2mm) | Kolasib- 331.10mm (380.9mm)

Lawngtlai-291.28mm (285.5mm) | Lunglei-326.52mm (186.21mm) | Mamit-204.84mm (442.80mm) | Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

Maximum Tem. (ºC):29-30ºC
Minimum Tem. (ºC):18-20ºC
Maximum RH (%):98-100%
Minimum RH (%):78-93%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.02 km/hr

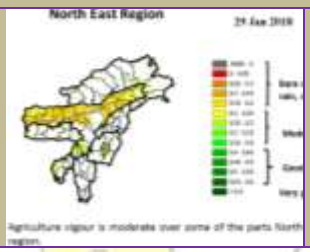
Rainfall: 125.1 mm

18th August – 22nd August, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31ºC a ni ang a. A vawh lai ber in 23-24ºC ni tura beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 42-72% ni tur a rin niin. Thli hi darkar khatah 2 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: **158.0mm**

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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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:** 18 August – 22 August, 2018

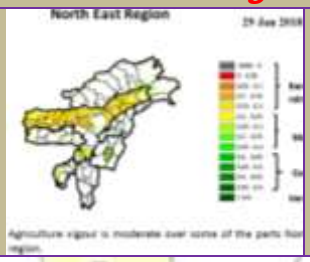
Bulletin No: - 817/2018/ Bulletin/English **Date of issue:** 17th August, 2018

Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	78	42	33	54	10
Max Temp (ºC)	30	30	30	30	31
Min Temp (ºC)	16	16	17	17	17
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	99	100	100	97
Min RH (%)	84	72	73	77	63
Wind Speed (KmpH)	2	2	2	2	4
*Wind Direction	E	E	N-E	N-E	S-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- July 1-31, 2018 (*Percent of deviation from normal in parenthesis*)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 18thAugust, 2018 To 22nd August, 2018.
Maximum Tem. (ºC):23-25ºC **Minimum Tem. (ºC):**15-18ºC **Maximum RH (%):**99-100% **Minimum RH (%):**79-94% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 3.21 km/hr **Rainfall:** 114.8 mm	There are chances of moderate to light to heavy and very heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-31ºC and 16-17ºC. Maximum relative humidity is expected in the range of 97-100% and minimum may from 63-84%.Wind direction would be easterly to northeasterly and southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **217.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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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 **STAR FRUIT** **PLUM AND PEACH**	**Nursery and gap filling stage**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly. • **By seeds:** Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide every alternate days. • Potting mixture of soil, sand and FYM or compost should be in proper ratio. • Application of split dose of fertilizer 600: 200:100 (g/pt). • Only certified seed should be used. • Stagnation of water in beds should be avoided. • In the citrus belt, trees can be planted at any time; however, pre-monsoon is the best time for transplant or gap filling. • Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	• **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water. • **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. • **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water.
PLANTATION CROP			
COFFEE	**Berry development stage**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the

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			field properly. - Coffee should be grown as a single stem system. Pruning is required to: - Supply good healthy wood for the next season's crop; - maintain the correct balance between leaf area and crop; - Prevent overbearing and dieback; - Reduce biennial bearing; - Maintain good tree shape. **De suckering-** - De-sucker to maintain a single stem system and avoid competition from suckers - Remove 'fly crop' fruit (early fruit which compete with strong plant/root development) as they appear. **Weeding** - Weeding or basin clearing must be done for better growth and development.
Rubber	**Transplanting and gap filling**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly. - Start planting newly established place. - Weeding must be done. - Apply 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. - Basin clearing of all established plant. - Rain cap can use for tapping plant - Start intercropping in newly established orchard.
Oil plam	**Vegetative/ Harvesting stage**		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be

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			apply at time of planting to each pit as basal dose application. - Provide irrigation every alternate day or use straw mulch. - Basin clearing of all plant. - Rain cap can use for tapping plant ❖ Start intercropping in newly established orchard. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	**Flowering to fruiting stage**		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Trail semi hard wood stem to bower structure - Clean near the base of the plant. - According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Medium to young seedling should be support by bamboo stake.
CEREALS AND PULSE CROPS			
Maize	**Vegetative stage**		- According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Weeding and fertilizer application must be done. - Probability of stem borer infestation will be high. Spray any systemic insecticide. - Use rat trap to reduce rat damage in field.
Kharif Rice	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be high

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			and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Water level shall be maintained for better transplant. - Plough the field two to three times. - According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. - Transplant 2-3 seedlings in one place for avoid gap filling. - Spacing should be 20 cm row to row and 15 cm plant to plant. - Keep some seedlings in nursery or corner of the field for gap filling.
***Jhum* Rice**	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and stability in root zone. - Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	**Vegetative stage**		- According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Earthing up soil for better growth and stability in root zone. - Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and

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			stability in root zone. - Use split dose of any nitrogenous fertilizer for better growth. - Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceous crop	**Harvesting stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Harvest all the produces and keep seed for next season - 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 against fruit fly and pumpkin beetle.
Chilli	**Vegetative to flowering stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Harvest all the produces and keep seed for next season - 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 against fruit fly and pumpkin beetle.
		Fruit fly	- 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.
Cowpea	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and stability in root zone.

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			✦ Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	**Vegetative stage**		✦ According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. ✦ Earthing up soil for better growth and stability in root zone. ✦ Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	**Vegetative stage**		✦ According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. ✦ Earthing up soil for better growth and stability in root zone. ✦ Apply use split dose of any nitrogenous fertilizer for better growth.
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

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			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. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for

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		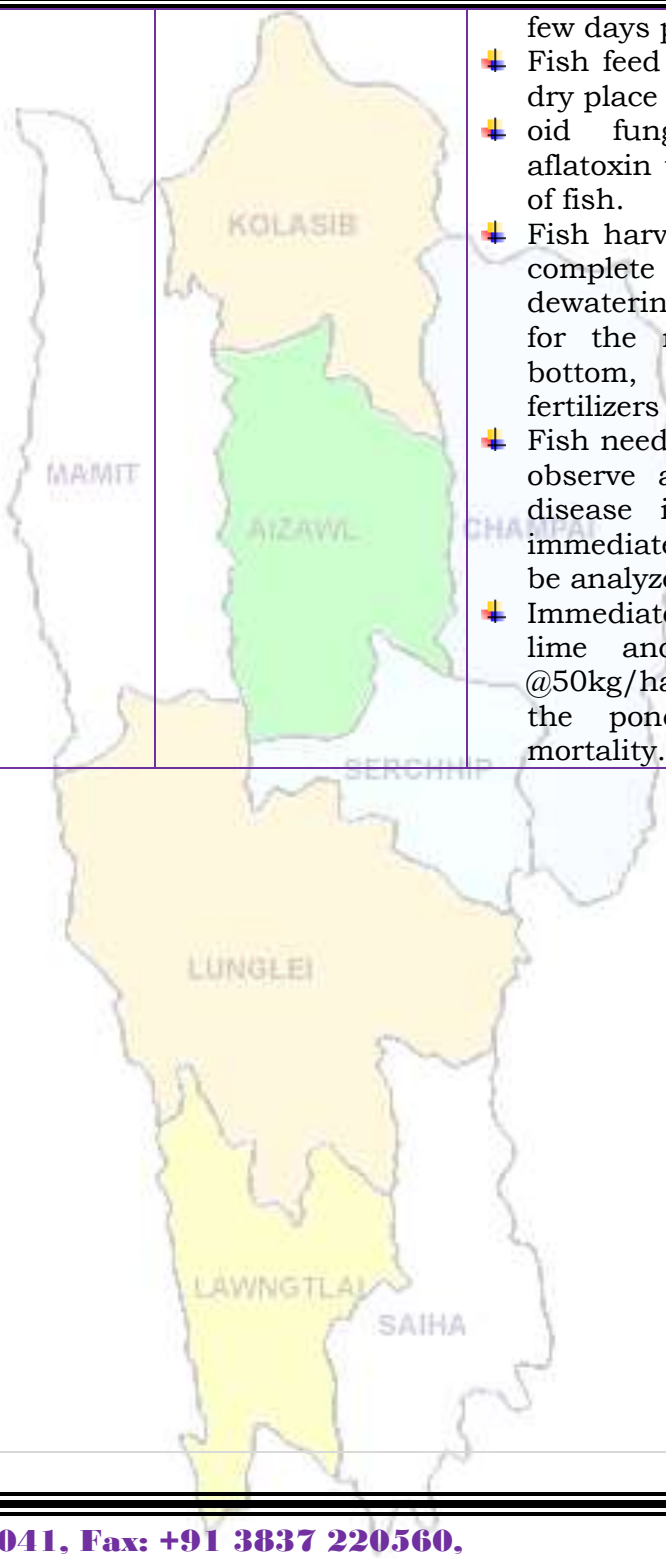	few days prior to feeding. • Fish feed should be stored in cool and dry place to av • oid fungal growth that releases aflatoxin which could lead to mortality of fish. • Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. • Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. • Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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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: Saiha **Period:** 18 August – 22 August, 2018

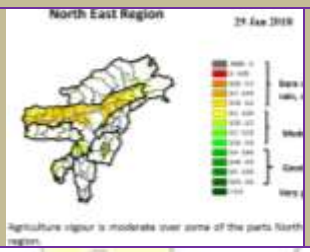
Bulletin No: - 817/2018/ Bulletin/Mizo **Date of issue:** 17th August, 2018

Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	78	42	33	54	10
Max Temp (ºC)	30	30	30	30	31
Min Temp (ºC)	16	16	17	17	17
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	99	100	100	97
Min RH (%)	84	72	73	77	63
Wind Speed (KmpH)	2	2	2	2	4
*Wind Direction	E	E	N-E	N-E	S-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- July 1-31, 2018 (*Percent of deviation from normal in parenthesis*)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days	18th August – 22nd August, 2018 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):23-25ºC **Minimum Tem. (ºC):**15-18ºC **Maximum RH (%):**99-100% **Minimum RH (%):**79-94% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 3.21 km/hr **Rainfall:** 114.8 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31ºC a ni ang a. A vawh lai ber in 16-17ºC ni tura beisei a ni. RH san lai berin of 97-100% leh a hniam lai berin 63-84% 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:*** **217.0mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Serchhip **Period:** 18 August – 22 August, 2018

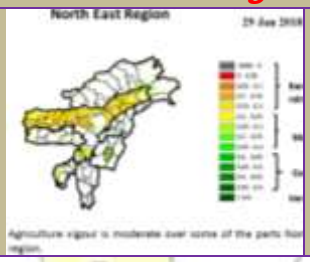
Bulletin No: - 817/2018/ Bulletin/English **Date of issue:** 17th August, 2018

Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	37	44	20	31	7
Max Temp (ºC)	30	30	30	30	31
Min Temp (ºC)	16	16	17	17	17
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	95
Min RH (%)	70	72	75	61	48
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	N-E	N-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- July 1-31, 2018 (*Percent of deviation from normal in parenthesis*)

Aizawl- 412.50mm (341.8mm)	Champhai- 105.47mm (250.30mm)	Saiha- 307.78 mm (87.2mm)	Kolasib- 331.10mm (380.9mm)
Lawngtlai-291.28mm (285.5mm)	Lunglei-326.52mm (186.21mm)	Mamit-204.84mm (442.80mm)	Serchhip-189.57mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 18thAugust, 2018 To 22nd August, 2018.
Maximum Tem. (ºC):25-28ºC **Minimum Tem. (ºC):**18-19ºC **Maximum RH (%):**98-100% **Minimum RH (%):**81-92% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 3.25 km/hr **Rainfall:** 108.8 mm	There are chances of moderate to light and heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-31ºC and 16-17ºC. Maximum relative humidity is expected in the range of 95-100% and minimum may from 48-75%.Wind direction would be easterly to northeasterly and easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **139.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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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 **STAR FRUIT** **PLUM AND PEACH**	**Nursery and gap filling stage**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly. • **By seeds:** Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide every alternate days. • Potting mixture of soil, sand and FYM or compost should be in proper ratio. • Application of split dose of fertilizer 600: 200:100 (g/pt). • Only certified seed should be used. • Stagnation of water in beds should be avoided. • In the citrus belt, trees can be planted at any time; however, pre-monsoon is the best time for transplant or gap filling. • Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	• **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water. • **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. • **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water.
PLANTATION CROP			
COFFEE	**Berry development stage**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the

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			field properly. - Coffee should be grown as a single stem system. Pruning is required to: - Supply good healthy wood for the next season's crop; - maintain the correct balance between leaf area and crop; - Prevent overbearing and dieback; - Reduce biennial bearing; - Maintain good tree shape. **De suckering-** - De-sucker to maintain a single stem system and avoid competition from suckers - Remove 'fly crop' fruit (early fruit which compete with strong plant/root development) as they appear. **Weeding** - Weeding or basin clearing must be done for better growth and development.
Rubber	**Transplanting and gap filling**		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly. - Start planting newly established place. - Weeding must be done. - Apply 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. - Basin clearing of all established plant. - Rain cap can use for tapping plant - Start intercropping in newly established orchard.
Oil plam	**Vegetative/ Harvesting stage**		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be

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			apply at time of planting to each pit as basal dose application. - Provide irrigation every alternate day or use straw mulch. - Basin clearing of all plant. - Rain cap can use for tapping plant ❖ Start intercropping in newly established orchard. ❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	**Flowering to fruiting stage**		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Trail semi hard wood stem to bower structure - Clean near the base of the plant. - According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Medium to young seedling should be support by bamboo stake.
CEREALS AND PULSE CROPS			
Maize	**Vegetative stage**		- According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Weeding and fertilizer application must be done. - Probability of stem borer infestation will be high. Spray any systemic insecticide. - Use rat trap to reduce rat damage in field.
Kharif Rice	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be high

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			and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Water level shall be maintained for better transplant. - Plough the field two to three times. - According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. - Transplant 2-3 seedlings in one place for avoid gap filling. - Spacing should be 20 cm row to row and 15 cm plant to plant. - Keep some seedlings in nursery or corner of the field for gap filling.
***Jhum* Rice**	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and stability in root zone. - Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	**Vegetative stage**		- According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly. - Earthing up soil for better growth and stability in root zone. - Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and

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			stability in root zone. - Use split dose of any nitrogenous fertilizer for better growth. - Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceous crop	**Harvesting stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Harvest all the produces and keep seed for next season - 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 against fruit fly and pumpkin beetle.
Chilli	**Vegetative to flowering stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Harvest all the produces and keep seed for next season - 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 against fruit fly and pumpkin beetle.
		Fruit fly	- 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.
Cowpea	**Vegetative stage**		- According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. - Earthing up soil for better growth and stability in root zone.

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			✦ Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	**Vegetative stage**		✦ According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. ✦ Earthing up soil for better growth and stability in root zone. ✦ Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	**Vegetative stage**		✦ According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly. ✦ Earthing up soil for better growth and stability in root zone. ✦ Apply use split dose of any nitrogenous fertilizer for better growth.
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

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			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. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for

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		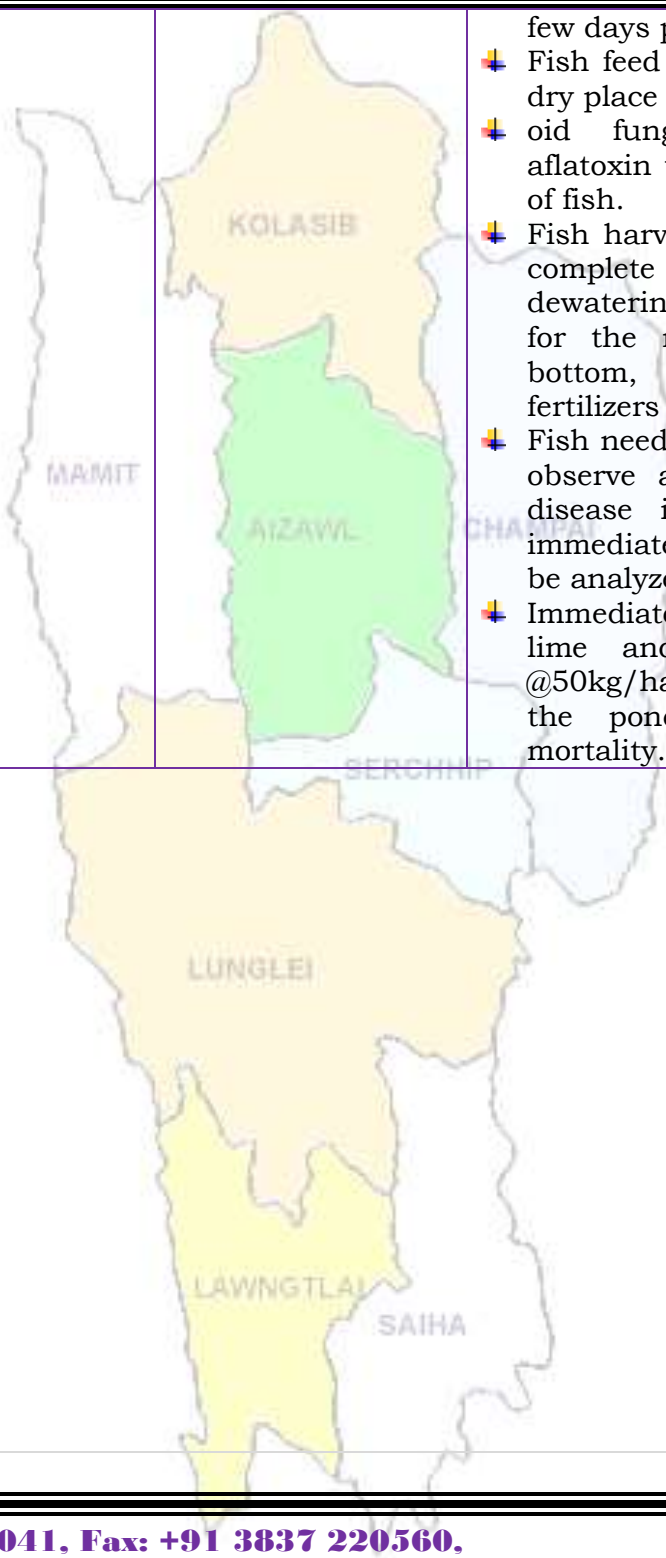	few days prior to feeding. • Fish feed should be stored in cool and dry place to av • oid fungal growth that releases aflatoxin which could lead to mortality of fish. • Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. • Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. • Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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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:** 18 August – 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/Mizo **Date of issue:** 17th August, 2018

Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	37	44	20	31	7
Max Temp (ºC)	30	30	30	30	31
Min Temp (ºC)	16	16	17	17	17
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	95
Min RH (%)	70	72	75	61	48
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	N-E	N-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- July 1-31, 2018 (*Percent of deviation from normal in parenthesis*)

Aizawl- 412.50mm (341.8mm) | Champhai- 105.47mm (250.30mm) | Saiha- 307.78 mm (87.2mm) | Kolasib- 331.10mm (380.9mm)

Lawngtlai-291.28mm (285.5mm) | Lunglei-326.52mm (186.21mm) | Mamit-204.84mm (442.80mm) | Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

Maximum Tem. (ºC): 25-28ºC
Minimum Tem. (ºC): 18-19ºC
Maximum RH (%): 98-100%
Minimum RH (%): 81-92%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.25 km/hr

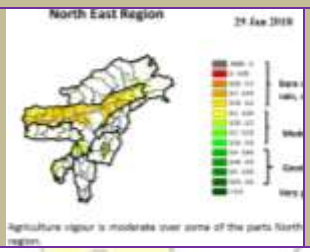
Rainfall: 108.8 mm

18th August – 22nd August, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31ºC a ni ang a. A vawh lai ber in 16-17ºC ni tura beisei a ni. RH san lai berin 95-100% leh a hniam lai berin 48-75% ni tur a rin niin. Thli hi darkar khatah 2 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: **139.0mm**

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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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