



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: 13thOctober-17thOctober, 2018

Bulletin No: - 830/2018/ Bulletin/English

Date of issue: 12th October, 2018

Parameters	13.10.2018	14.10.2018	15.10.2018	16.10.2018	17.10.2018
Rainfall (mm)	22	93	130	21	35
Max Temp (°C)	28	28	28	28	27
Min Temp (°C)	16	16	16	16	16
Cloud Coverage	mainly cloudy	mainly cloudy	mainly cloudy	mainly cloudy	mainly cloudy
Max RH (%)	99	99	100	99	99
Min RH (%)	96	97	99	67	97
Wind Speed (Kmph)	2	4	2	2	4
*Wind Direction	E	E	E	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**

Maximum Tem. (°C):25-4°C
Minimum Tem. (°C):16-17°C
Maximum RH (%):91-100%
Minimum RH (%):66-79%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.43 km/hr

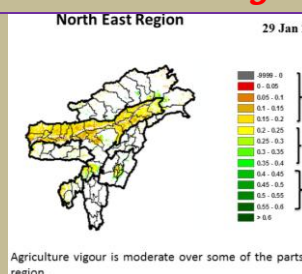
Rainfall: 20.4 mm

**Weather forecast valid from 13th October, 2018 To 17th
October, 2018.**

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 27-28°C and 16°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 67-99%. 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: 301.0 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
Cereals			
Rice (Upland)	Dough Grain filling stage	Gundhi bug	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Monitor crop against attack of gundhi bug, ✚ Weeding is advised to ward off the alternate host of gundhi bug ✚ Install local trap of dead frog/fermented fish etc against gundhi bug in rice ✚ In case of heavy infestation spray triazophos/chloripyriphos@1-2ml/lit during clear/dry days or using proper stickers.
Maize (Kharif)	Harvesting stage	Seed production	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Harvest all mature cobs. ✚ Proper sun drying is required for de shelling of maize grain. ✚ Keep rodent trap in field or take percussion measures from rodent infestation.
Pulses	Flowering	Blister beetle	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest
Fruits			
Citrus	Fruit development stage	Citrus Canker	✚ Due to high humidity the problem of citrus canker get aggravated in acid lime leading to excessive fruit drop. Spray copper oxychloride 180 gms with spreptocycline 6 gms in 60 liters of water to control canker ✚ Follow clean cultivation in orchard and



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			bury fallen fruits in a deep pit frequently.
Vegetable			
Cucurbits	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	- On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids, - On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass, - Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.
Animal Husbandry			
Livestock	Stage	Disease	Precautionary Practices to be followed
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. - 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.
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



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			against swine fever (Vaccines available in State Veterinary Departs)
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 few days prior to feeding. - Fish feed should be stored in cool and dry place to avoid 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.



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

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Weather summary of the past three days

**13thOctober – 17thOctober, 2018 chungsa sik
 leh sa dinhmun tur tlangpui**

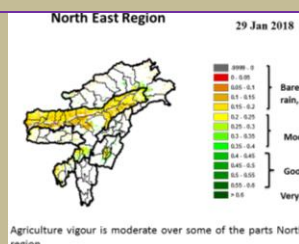
Maximum Tem. (°C):25-40°C
Minimum Tem. (°C):16-17°C
Maximum RH (%):91-100%
Minimum RH (%):66-79%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.43 km/hr

Tun ni 5 chung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-28°C a ni ang a. A vawh lai berin 16°C ni tura beisei a ni. RH san lai berin of 99-100% leh a hniam lai berin 67-99% 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 chung hian khawdur tak hmuh beisei a ni.

Rainfall: 20.4 mm

Weekly cumulative rainfall: 301.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	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 tawh 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.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		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 <i>Azospirillum</i> leh <i>Phosphobacterium</i> 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 hlihah 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 lain 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 fimkhur 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 sawngbawl 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, P₂O₅ leh



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			K ₂ O/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.
		Phytophthora 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 HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawh 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).
	Adult stage		Swine fever.
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 tawh 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 chhonzawm 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 tawh, chaw tha an mamawh tawh leh tui thianghlim an mamawh tawh an hmu tur ani a. - An hriselna atan enkawltha tha tawh 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	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
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: Lunglei

Period: 13thOctober–17thOctober, 2018

Bulletin No: - 830/2018/ Bulletin/English

Date of issue: 12th October, 2018

Parameters	13.10.2018	14.10.2018	15.10.2018	16.10.2018	17.10.2018
Rainfall (mm)	33	118	130	21	35
Max Temp (°C)	30	27	26	27	26
Min Temp (°C)	20	20	19	19	19
Cloud Coverage	mainly cloudy	mainly cloudy	mainly cloudy	mainly cloudy	mainly cloudy
Max RH (%)	99	100	100	99	99
Min RH (%)	91	88	99	78	93
Wind Speed (Kmph)	2	2	2	2	6
*Wind Direction	E	E	E	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

Maximum Tem. (°C):24-25°C
Minimum Tem. (°C):14-16°C
Maximum RH (%):85-99%
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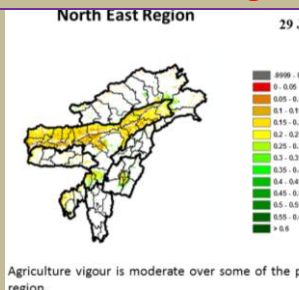
Rainfall: 19.4 mm

Weather forecast valid from 13th October, 2018 To 17th October, 2018.

There are chances of moderate rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 26-30°C and 19-20°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 78-99%. Wind direction would be easterly with the wind speed of 2-6 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 337.0 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
Cereals			
Rice (Upland)	Dough Grain filling stage	Gundhi bug KOLASIB MAMIT AIZAWL CHAMPHAI	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Monitor crop against attack of gundhi bug, ✚ Weeding is advised to ward off the alternate host of gundhi bug ✚ Install local trap of dead frog/fermented fish etc against gundhi bug in rice ✚ In case of heavy infestation spray triazophos/chloripyriphos@1-2ml/lit during clear/dry days or using proper stickers.
Maize (Kharif)	Harvesting stage	Seed production SERCHHIP	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Harvest all mature cobs. ✚ Proper sun drying is required for de shelling of maize grain. ✚ Keep rodent trap in field or take percussion measures from rodent infestation.
Groundnut	Flowering	Leaf Spot/tikka disease LUNGLAI LAWNGTLAI SAIHA	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water ✚ Do not disturb the soil structure by spading/hoeing in the field. ✚ Hand weeding with care is recommended.



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Pulses	Flowering	Blister beetle	There is possibility of less rain in upcoming 5 days and temperature will be high. Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest
Fruits			
Citrus	Fruit development stage	Citrus Canker	There is possibility of less rain in upcoming 5 days and temperature will be high. - Due to high humidity the problem of citrus canker get aggravated in acid lime leading to excessive fruit drop. Spray copper oxychloride 180 gms with spreptocycline 6 gms in 60 liters of water to control canker - Follow clean cultivation in orchard and bury fallen fruits in a deep pit frequently.
Vegetable			
Tomato and crucifer	Nursery stage		There is possibility of less rain in upcoming 5 days and temperature will be high. - Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m2) - Line sowing of seeds (7-10cm)
Animal Husbandry			
Livestock	Stage	Disease	Precautionary Practices to be followed
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. - 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



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			vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.
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)



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Weather summary of the past three days

13thOctober – 17thOctober, 2018 chungsa sik leh sa dinhmun tur tlangpui

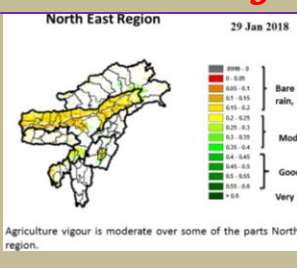
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Maximum RH (%):85-99%
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Wind Direction: Easterly
Cloud cover: Mainly cloudy
Wind speed: 3.61 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-30°C a ni ang a. A vawh lai ber in 19-20°C ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 78-99% ni tur a rin niin. Thli hi darkar khatah 2-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chung hian khawdur deuh hmuh beisei a ni.

Rainfall: 19.4 mm

Weekly cumulative rainfall: 337.0mm

NDVI for 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	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 tawh 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.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		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 <i>Azospirillum</i> leh <i>Phosphobacterium</i> 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 hlih 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 lain 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 fimkhur 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 sawngbawl 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, P₂O₅ leh



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			K ₂ O/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.
		Phytophthora 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.

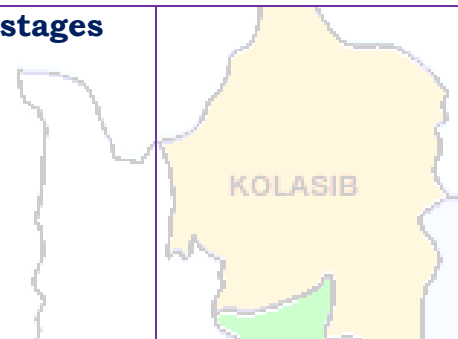
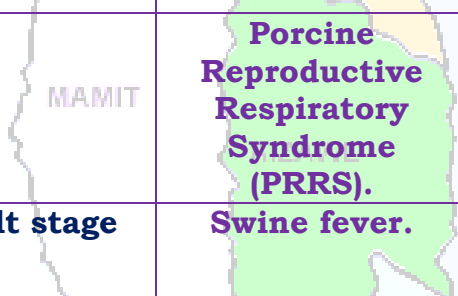
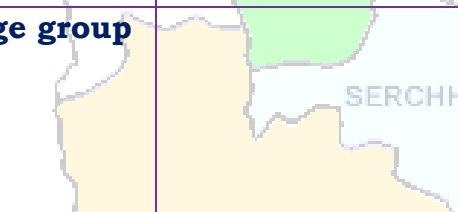
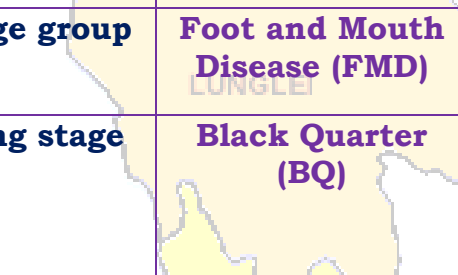
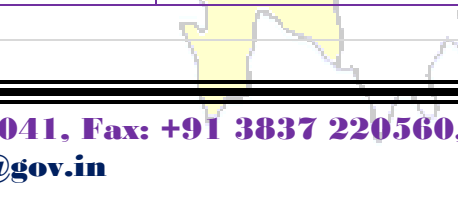


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian 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 chhonzawm 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 chhonzawm 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 enkawltha 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	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
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: Mamit

Period: 13thOctober–17thOctober, 2018

Bulletin No: - 830/2018/ Bulletin/English

Date of issue: 12th October, 2018

Parameters	13.10.2018	14.10.2018	15.10.2018	16.10.2018	17.10.2018
Rainfall (mm)	27	94	36	55	56
Max Temp (°C)	29	28	28	28	27
Min Temp (°C)	20	20	20	19	19
Cloud Coverage	mainly cloudy	mainly cloudy	mainly cloudy	mainly cloudy	mainly cloudy
Max RH (%)	96	100	100	100	100
Min RH (%)	41	94	99	78	99
Wind Speed (Kmph)	2	2	2	2	7
*Wind Direction	E	S-E	S-E	S-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

Maximum Tem. (°C):22-27°C
Minimum Tem. (°C):17°C
Maximum RH (%):91-97%
Minimum RH (%):66-79%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.12 km/hr

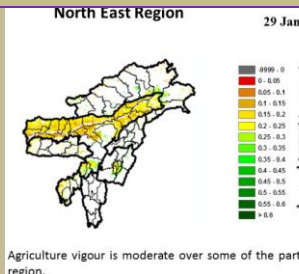
Rainfall: 19.3mm

Weather forecast valid from 13th October, 2018 To 17th October, 2018.

There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-29°C and 19-20°C. Maximum relative humidity is expected in the range of 96-100% and minimum may from 41-99%. Wind direction would be southeasterly with the wind speed of 2-7km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 268.0 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
Cereals			
Rice (Upland)	Dough Grain filling stage	Gundhi bug KOLASIB MAMIT AIZAWL	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Monitor crop against attack of gundhi bug, ✚ Weeding is advised to ward off the alternate host of gundhi bug ✚ Install local trap of dead frog/fermented fish etc against gundhi bug in rice ✚ In case of heavy infestation spray triazophos/chloripyriphos@1-2ml/lit during clear/dry days or using proper stickers.
Maize (Kharif)	Harvesting stage	Seed production SERCHHIP	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Harvest all mature cobs. ✚ Proper sun drying is required for de shelling of maize grain. ✚ Keep rodent trap in field or take percussion measures from rodent infestation.
Pulses	Flowering	Blister beetle LUNGLEI	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest
Fruits			
Citrus	Fruit development stage	Citrus Canker LAWNGTLAI SAIHA	✚ Due to high humidity the problem of citrus canker get aggravated in acid lime leading to excessive fruit drop. Spray copper oxychloride 180 gms with spreptocycline 6 gms in 60 liters of water to control canker ✚ Follow clean cultivation in orchard and bury fallen fruits in a deep pit



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			frequently.
Vegetable			
Cucurbits	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	- On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids, - On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass, - Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.
Animal Husbandry			
Livestock	Stage	Disease	Precautionary Practices to be followed
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. - 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.
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



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			in State Veterinary Departs)
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 few days prior to feeding. - Fish feed should be stored in cool and dry place to avoid 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.



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District: Mamit

Period: 13thOctober–17thOctober, 2018

Bulletin No: - 830/2018/ Bulletin/Mizo

Date of issue: 12th October, 2018

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*Wind Direction	E	S-E	S-E	S-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.

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Weather summary of the past three days

13thOctober – 17thOctober, 2018 chungsa sik leh sa dinhmun tur tlangpui

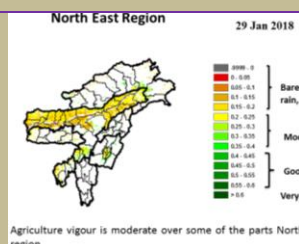
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Minimum Tem. (°C):17°C
Maximum RH (%):91-97%
Minimum RH (%):66-79%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.12 km/hr

Tun ni 5 chung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-29°C a ni ang a. A vawh lai ber in 19-20°C ni tura beisei a ni. RH san lai berin 96-100% leh a hniam lai berin 41-99%ni tur a rin niin. Thli hi darkar khatah 2-7 km vela chakin thlanglam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chung hian khawdur hmuh beisei a ni.

Rainfall: 19.3mm

Weekly cumulative rainfall: 268.0mm

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	A kui atanga a seng hun		- Thlasik laia thlai bul khoro lutuk tur vennen 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 tawh 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.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennen 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 <i>Azospirillum</i> leh <i>Phosphobacterium</i> 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 hlih 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 lain 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 fimkhur 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 sawngbawl 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, P₂O₅ leh



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			K₂O/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.
		Phytophthora 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.

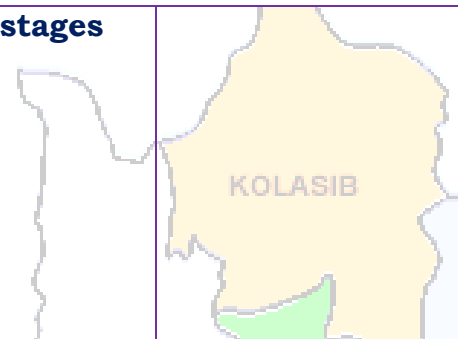
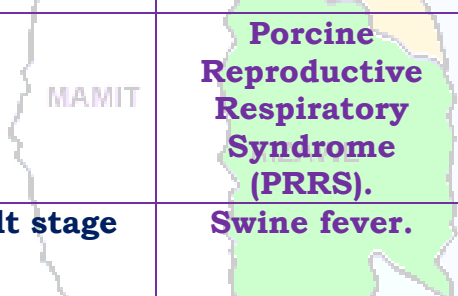
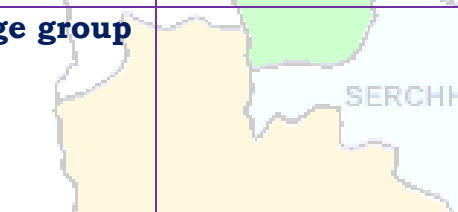
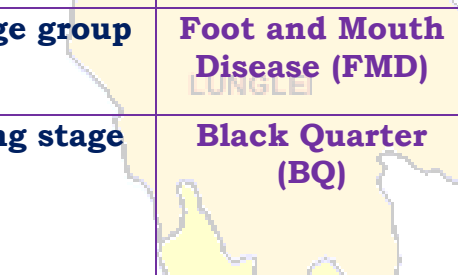
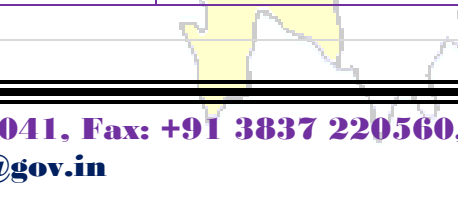


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			1. Vawknote emaw vawk lak hran.
	Adult stage		2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm 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		Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		- 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 enkawltha 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	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
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.



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)



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District: Saiha

Period: 13thOctober–17thOctober, 2018

Bulletin No: - 830/2018/ Bulletin/English

Date of issue: 12th October, 2018

Parameters	13.10.2018	14.10.2018	15.10.2018	16.10.2018	17.10.2018
Rainfall (mm)	15	82	120	160	32
Max Temp (°C)	28	28	28	28	27
Min Temp (°C)	16	16	16	16	16
Cloud Coverage	mainly cloudy	mainly cloudy	mainly cloudy	mainly cloudy	mainly cloudy
Max RH (%)	99	100	100	99	100
Min RH (%)	90	99	99	67	94
Wind Speed (Kmph)	2	4	2	3	5
*Wind Direction	E	E	E	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**

Maximum Tem. (°C):23-25°C
Minimum Tem. (°C):15-18°C
Maximum RH (%):86-97%
Minimum RH (%):63-75%
Wind Direction: Easterly
Cloud cover: Mainly cloudy
Wind speed: 3.21 km/hr

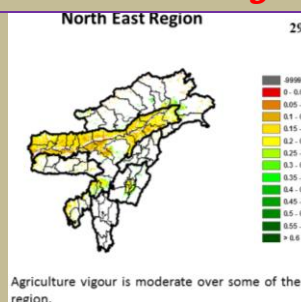
Rainfall: 22.6 mm

**Weather forecast valid from 13th October, 2018 To 17th
October, 2018.**

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 27-28°C and 16°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 67-99%. Wind direction would be easterly with the wind speed of 2-5 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 409.0 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
Cereals			
Rice (Upland)	Dough Grain filling stage	Gundhi bug KOLASIB MAMIT AIZAWL CHAMPHAI	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Monitor crop against attack of gundhi bug, ✚ Weeding is advised to ward off the alternate host of gundhi bug ✚ Install local trap of dead frog/fermented fish etc against gundhi bug in rice ✚ In case of heavy infestation spray triazophos/chloripyriphos@1-2ml/lit during clear/dry days or using proper stickers.
Maize (Kharif)	Harvesting stage	Seed production SERCHHIP	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Harvest all mature cobs. ✚ Proper sun drying is required for de shelling of maize grain. ✚ Keep rodent trap in field or take percussion measures from rodent infestation.
Groundnut	Flowering	Leaf Spot/tikka disease LUNGLAI LAWNGTLAI SAIHA	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water ✚ Do not disturb the soil structure by spading/hoeing in the field. ✚ Hand weeding with care is recommended.



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Pulses	Flowering	Blister beetle	There is possibility of less rain in upcoming 5 days and temperature will be high. Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest
Fruits			
Citrus	Fruit development stage	Citrus Canker	There is possibility of less rain in upcoming 5 days and temperature will be high. - Due to high humidity the problem of citrus canker get aggravated in acid lime leading to excessive fruit drop. Spray copper oxychloride 180 gms with spreptocycline 6 gms in 60 liters of water to control canker - Follow clean cultivation in orchard and bury fallen fruits in a deep pit frequently.
Vegetable			
Tomato and crucifer	Nursery stage		There is possibility of less rain in upcoming 5 days and temperature will be high. - Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m2) - Line sowing of seeds (7-10cm)
Animal Husbandry			
Livestock	Stage	Disease	Precautionary Practices to be followed
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. - 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



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			vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.
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)



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District: Saiha

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Bulletin No: - 830/2018/ Bulletin/Mizo

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Weather summary of the past three days

13thOctober – 17thOctober, 2018 chungsa sik leh sa dinhmun tur tlangpui

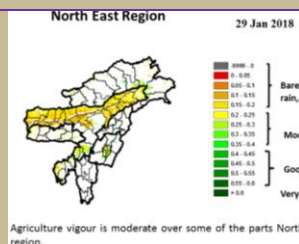
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Minimum Tem. (°C):15-18°C
Maximum RH (%):86-97%
Minimum RH (%):63-75%
Wind Direction: Easterly
Cloud cover: Mainly cloudy
Wind speed: 3.21 km/hr

Tun ni 5 chung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-28°C a ni ang a. A vawh lai berin 16°C ni tura beisei a ni. RH san lai berin of 99-100% leh a hniam lai berin 67-99% ni tur a rin niin. Thli hi darkar khatah 2-5 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chung hian khawdur tak hmuh beisei a ni.

Rainfall: 22.6 mm

Weekly cumulative rainfall: 409.0mm

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	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 tawh 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.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		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 <i>Azospirillum</i> leh <i>Phosphobacterium</i> 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 hlih 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 lain 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 fimkhur 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 sawngbawl 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, P₂O₅ leh



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			K₂O/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.
		Phytophthora 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.

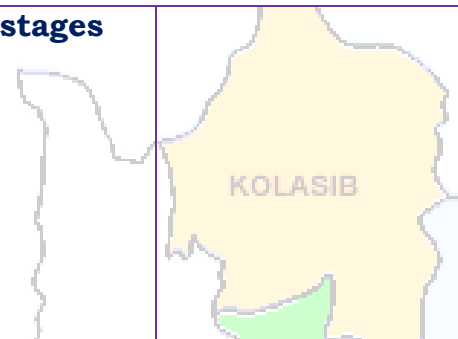
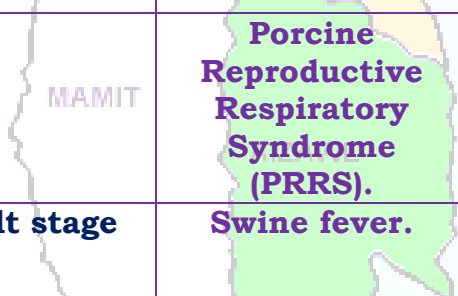
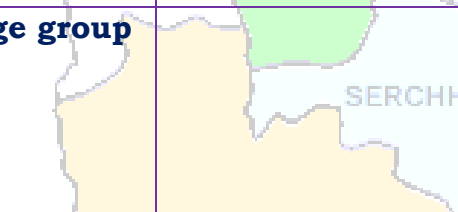
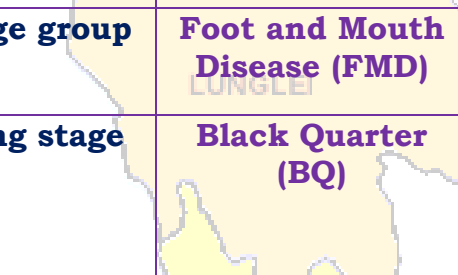
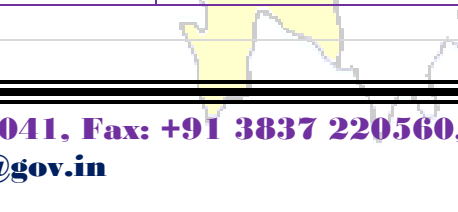


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian 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 hnuah pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm 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 chhonzawm 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 enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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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	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
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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District: Serchhip

Period: 13thOctober–17thOctober, 2018

Bulletin No: - 830/2018/ Bulletin/English

Date of issue: 12th October, 2018

Parameters	13.10.2018	14.10.2018	15.10.2018	16.10.2018	17.10.2018
Rainfall (mm)	39	73	64	26	33
Max Temp (°C)	28	28	28	28	27
Min Temp (°C)	16	16	16	16	16
Cloud Coverage	mainly cloudy	mainly cloudy	mainly cloudy	mainly cloudy	mainly cloudy
Max RH (%)	100	100	100	100	100
Min RH (%)	77	89	99	88	95
Wind Speed (Kmph)	2	2	2	2	5
*Wind Direction	E	E	S-E	S-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

Maximum Tem. (°C):21-23°C
Minimum Tem. (°C):14-15°C
Maximum RH (%):84-98%
Minimum RH (%):62-75%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2.57 km/hr

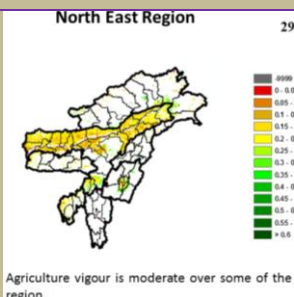
Rainfall: 21.5 mm

Weather forecast valid from 13th October, 2018 To 17th October, 2018.

There are chances of moderate to light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 27-28°C and 16°C. Maximum relative humidity is expected in the range of 100% and minimum may from 77-99%. Wind direction would be southeasterly with the wind speed of 2-5 km per hour. Mainly cloudy sky will prevail during the next five days

Weekly cumulative rainfall: 235.0 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
Cereals			
Rice (Upland)	Dough Grain filling stage	Gundhi bug KOLASIB MAMIT AIZAWL	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Monitor crop against attack of gundhi bug, ✚ Weeding is advised to ward off the alternate host of gundhi bug ✚ Install local trap of dead frog/fermented fish etc against gundhi bug in rice ✚ In case of heavy infestation spray triazophos/chloripyriphos@1-2ml/lit during clear/dry days or using proper stickers.
Maize (Kharif)	Harvesting stage	Seed production SERCHHIP	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Harvest all mature cobs. ✚ Proper sun drying is required for de shelling of maize grain. ✚ Keep rodent trap in field or take percussion measures from rodent infestation.
Pulses	Flowering	Blister beetle LUNGLEI	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest
Fruits			
Citrus	Fruit development stage	Citrus Canker LAWNGTLAI SAIHA	✚ Due to high humidity the problem of citrus canker get aggravated in acid lime leading to excessive fruit drop. Spray copper oxychloride 180 gms with spreptocycline 6 gms in 60 liters of water to control canker ✚ Follow clean cultivation in orchard and bury fallen fruits in a deep pit



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			frequently.
Vegetable			
Cucurbits	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	- On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids, - On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass, - Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.
Animal Husbandry			
Livestock	Stage	Disease	Precautionary Practices to be followed
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. - 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.
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



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			in State Veterinary Departs)
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 few days prior to feeding. - Fish feed should be stored in cool and dry place to avoid 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.



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Weather summary of the past three days

13thOctober – 17thOctober, 2018 chungsa sik leh sa dinhmun tur tlangpui

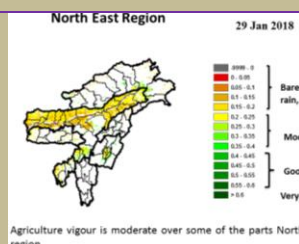
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Minimum RH (%):62-75%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2.57 km/hr

Tun ni 5 chung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-28°C a ni ang a. A vawh lai ber in 16°C ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 77-99% ni tur a rin niin. Thli hi darkar khatah 2-5 km vela chakin chhimchhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chung hian khawdur tak hmuh beisei a ni.

Rainfall: 21.5 mm

Weekly cumulative rainfall: 235.0mm

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	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 tawh 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.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		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 <i>Azospirillum</i> leh <i>Phosphobacterium</i> 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 hlih 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 lain 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 fimkhur 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 sawngbawl 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, P₂O₅ leh



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			K₂O/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.
		Phytophthora 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.

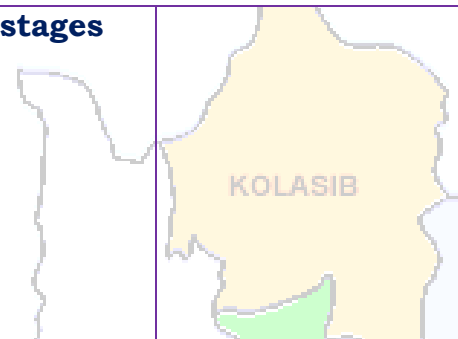
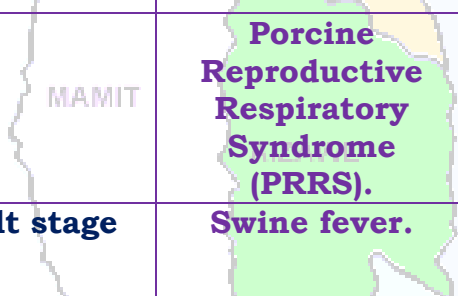
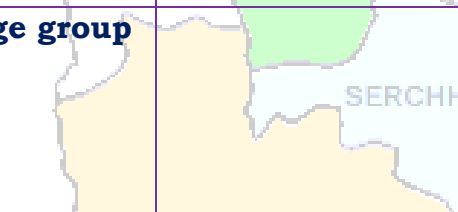
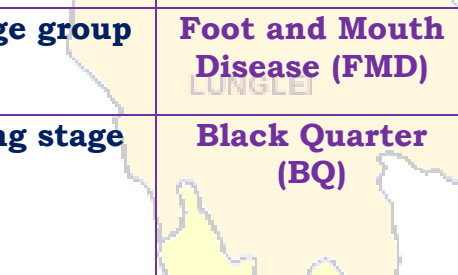
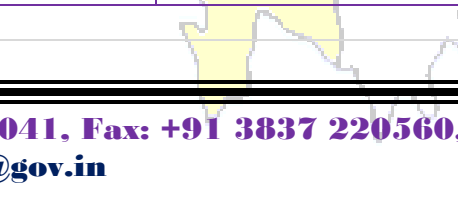


GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



ANIMAL HUSBANDRY			
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 hnuah pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm 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 chhonzawm 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 enkawltha 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	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
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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District: Aizawl

Period: 13thOctober–17thOctober, 2018

Bulletin No: - 830/2018/ Bulletin/English

Date of issue: 12th October, 2018

Parameters	13.10.2018	14.10.2018	15.10.2018	16.10.2018	17.10.2018
Rainfall (mm)	39	71	43	48	70
Max Temp (°C)	28	28	28	28	27
Min Temp (°C)	16	16	16	16	16
Cloud Coverage	mainly cloudy	mainly cloudy	mainly cloudy	mainly cloudy	mainly cloudy
Max RH (%)	98	100	100	100	100
Min RH (%)	44	97	99	88	99
Wind Speed (Kmph)	2	2	2	2	5
*Wind Direction	E	E	S-E	S-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

Maximum Tem. (°C):25°C
Minimum Tem. (°C):15-17°C
Maximum RH (%):86-95%
Minimum RH (%):66-80%
Wind Direction: Easterly
Cloud cover: Mainly cloudy
Wind speed: 4.5 km/hr

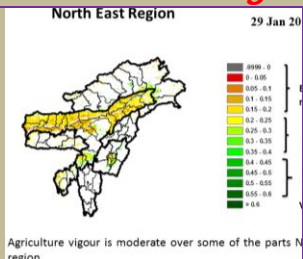
Rainfall: 34.6 mm

Weather forecast valid from 13th October, 2018 To 17th October, 2018.

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 27-28°C and 16°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 44-99%. Wind direction would be southeasterly with the wind speed of 2-5 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 271.0 mm

NDVI for Mizoram



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
Cereals			
Rice (Upland)	Dough Grain filling stage	Gundhi bug KOLASIB MAMIT AIZAWL	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Monitor crop against attack of gundhi bug, ✚ Weeding is advised to ward off the alternate host of gundhi bug ✚ Install local trap of dead frog/fermented fish etc against gundhi bug in rice ✚ In case of heavy infestation spray triazophos/chloripyriphos@1-2ml/lit during clear/dry days or using proper stickers.
Maize (Kharif)	Harvesting stage	Seed production SERCHHIP	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Harvest all mature cobs. ✚ Proper sun drying is required for de shelling of maize grain. ✚ Keep rodent trap in field or take percussion measures from rodent infestation.
Pulses	Flowering	Blister beetle LUNGLEI	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest
Fruits			
Citrus	Fruit development stage	Citrus Canker LAWNGTLAI SAIHA	✚ Due to high humidity the problem of citrus canker get aggravated in acid lime leading to excessive fruit drop. Spray copper oxychloride 180 gms with spreptocycline 6 gms in 60 liters of water to control canker ✚ Follow clean cultivation in orchard and bury fallen fruits in a deep pit



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			frequently.
Vegetable			
Cucurbits	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	- On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids, - On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass, - Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.
Animal Husbandry			
Livestock	Stage	Disease	Precautionary Practices to be followed
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. - 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.
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



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			in State Veterinary Departs)
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 few days prior to feeding. - Fish feed should be stored in cool and dry place to avoid 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.



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Period: 13thOctober–17thOctober, 2018

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Weather summary of the past three days

13thOctober – 17thOctober, 2018 chungsa sik leh sa dinhmun tur tlangpui

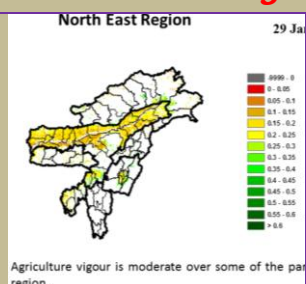
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Minimum RH (%):66-80%
Wind Direction: Easterly
Cloud cover: Mainly cloudy
Wind speed: 4.5 km/hr

Tun ni 5 chung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-28°C a ni ang a. A vawh lai ber in 16°C ni tura beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 44-99%ni tur a rin niin. Thli hi darkar khatah 2-5 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chung hian khawdur tak hmuh beisei a ni.

Rainfall: 34.6 mm

Weekly cumulative rainfall:271.0mm

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	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 tawh 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.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		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 <i>Azospirillum</i> leh <i>Phosphobacterium</i> 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 hlih 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 lain 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 fimkhur 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 sawngbawl 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, P₂O₅ leh



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			K₂O/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.
		Phytophthora 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.



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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ANIMAL HUSBANDRY			
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.
			1. Vawknote emaw vawk lak hran.
	Adult stage		2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm 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		Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		- 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 enkawltha 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	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
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

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GRAMIN KRISHI MAUSAM SEWA
ICAR RESEARCH COMPLEX FOR NEH REGION
 Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



District: Champhai

Period: 13thOctober–17thOctober, 2018

Bulletin No: - 830/2018/ Bulletin/English

Date of issue: 12th October, 2018

Parameters	13.10.2018	14.10.2018	15.10.2018	16.10.2018	17.10.2018
Rainfall (mm)	31	50	40	32	46
Max Temp (°C)	28	28	28	28	27
Min Temp (°C)	16	16	16	16	16
Cloud Coverage	mainly cloudy	mainly cloudy	mainly cloudy	mainly cloudy	mainly cloudy
Max RH (%)	99	100	99	99	100
Min RH (%)	57	89	99	82	94
Wind Speed (Kmph)	2	2	2	2	4
*Wind Direction	E	E	S-E	S-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

Maximum Tem. (°C):24-26°C
Minimum Tem. (°C):15-16°C
Maximum RH (%):90-99%
Minimum RH (%):66-85%
Wind Direction: Easterly
Cloud cover: Mainly cloudy
Wind speed: 3.65 km/hr

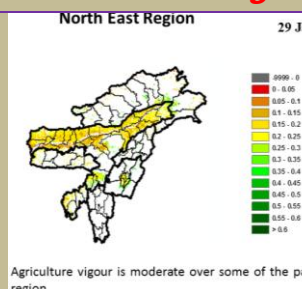
Rainfall: 63.5 mm

Weather forecast valid from 13th October, 2018 To 17th October, 2018.

There are chances of moderate to light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 27-28°C and 16°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 57-99%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 199.0 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
Cereals			
Rice (Upland)	Dough Grain filling stage	Gundhi bug KOLASIB MAMIT AIZAWL CHAMPHAI SERCHHIP	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Monitor crop against attack of gundhi bug, ✚ Weeding is advised to ward off the alternate host of gundhi bug ✚ Install local trap of dead frog/fermented fish etc against gundhi bug in rice ✚ In case of heavy infestation spray triazophos/chloripyriphos@1-2ml/lit during clear/dry days or using proper stickers.
Maize (Kharif)	Harvesting stage	Seed production SERCHHIP	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Harvest all mature cobs. ✚ Proper sun drying is required for de shelling of maize grain. ✚ Keep rodent trap in field or take percussion measures from rodent infestation.
Groundnut	Flowering	Leaf Spot/tikka disease LUNGLAI LAWNGTLAI SAIHA	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water ✚ Do not disturb the soil structure by spading/hoeing in the field. ✚ Hand weeding with care is recommended.



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Pulses	Flowering	Blister beetle	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest
Fruits			
Citrus	Fruit development stage	Citrus Canker	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Due to high humidity the problem of citrus canker get aggravated in acid lime leading to excessive fruit drop. Spray copper oxychloride 180 gms with spreptocycline 6 gms in 60 liters of water to control canker ✚ Follow clean cultivation in orchard and bury fallen fruits in a deep pit frequently.
Vegetable			
Tomato and crucifer	Nursery stage		There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Nursery preparation for tomato. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m2) ✚ Line sowing of seeds (7-10cm)
Animal Husbandry			
Livestock	Stage	Disease	Precautionary Practices to be followed
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. ✚ 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



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			vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.
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)



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Mizoram Centre, Kolasib- 796081, MIZORAM

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District: Champhai

Period: 13thOctober–17thOctober, 2018

Bulletin No: - 830/2018/ Bulletin/Mizo

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Weather summary of the past three days

13thOctober – 17thOctober, 2018 chungsa sik leh sa dinhmun tur tlangpui

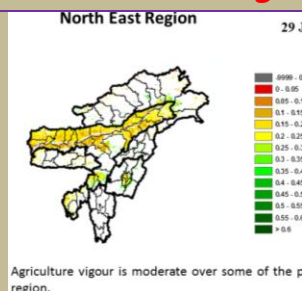
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Minimum RH (%):66-85%
Wind Direction: Easterly
Cloud cover: Mainly cloudy
Wind speed: 3.65 km/hr

Tun ni 5 chung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-28°C a ni ang a. A vawh lai ber in 16°C ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 57-99% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin thlanglam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chung hian khawdurtak hmuh beisei a ni.

Rainfall: 63.5 mm

Weekly cumulative rainfall: 199.0mm

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	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 tawh 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.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		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 <i>Azospirillum</i> leh <i>Phosphobacterium</i> 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 hlih 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 lain 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 fimkhur 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 sawngbawl 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, P₂O₅ leh



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			K₂O/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.
		Phytophthora 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.

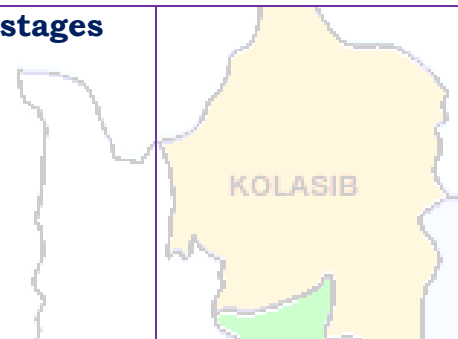
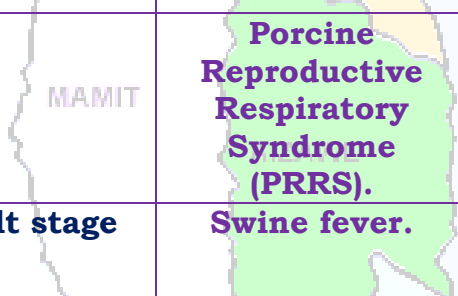
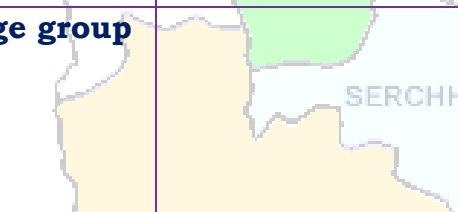
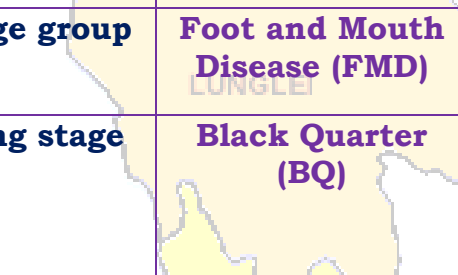
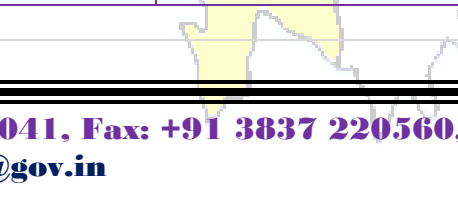


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian 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 chhonzawm 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 chhonzawm 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 enkawltha 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	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
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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District: Kolasib

Period: 13thOctober–17thOctober, 2018

Bulletin No: - 830/2018/ Bulletin/English

Date of issue: 12th October, 2018

Parameters	13.10.2018	14.10.2018	15.10.2018	16.10.2018	17.10.2018
Rainfall (mm)	6	45	25	49	87
Max Temp (°C)	29	28	28	28	27
Min Temp (°C)	20	20	20	19	19
Cloud Coverage	mainly cloudy	mainly cloudy	mainly cloudy	mainly cloudy	mainly cloudy
Max RH (%)	92	100	100	100	100
Min RH (%)	34	94	99	78	100
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	S-E	S-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. (°C):24-25°C
Minimum Tem. (°C):16°C
Maximum RH (%):89-96%
Minimum RH (%):65-79%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.25 km/hr

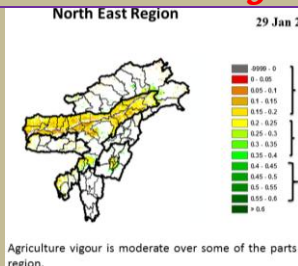
Rainfall: 23.5 mm

Weather forecast valid from 13th October, 2018 To 17th October, 2018.

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 27-28°C and 19-20°C. Maximum relative humidity is expected in the range of 92-100% and minimum may from 34-100%. Wind direction would be southeasterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 212.0 mm

NDVI for Mizoram



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
Cereals			
Rice (Upland)	Dough Grain filling stage	Gundhi bug	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Monitor crop against attack of gundhi bug, ✚ Weeding is advised to ward off the alternate host of gundhi bug ✚ Install local trap of dead frog/fermented fish etc against gundhi bug in rice ✚ In case of heavy infestation spray triazophos/chloripyriphos@1-2ml/lit during clear/dry days or using proper stickers.
Maize (Kharif)	Harvesting stage	Seed production	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Harvest all mature cobs. ✚ Proper sun drying is required for de shelling of maize grain. ✚ Keep rodent trap in field or take percussion measures from rodent infestation.
Pulses	Flowering	Blister beetle	There is possibility of less rain in upcoming 5 days and temperature will be high. ✚ Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest
Fruits			
Citrus	Fruit development stage	Citrus Canker	✚ Due to high humidity the problem of citrus canker get aggravated in acid lime leading to excessive fruit drop. Spray copper oxychloride 180 gms with spreptocycline 6 gms in 60 liters of water to control canker ✚ Follow clean cultivation in orchard and



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			bury fallen fruits in a deep pit frequently.
Vegetable			
Cucurbits	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	- On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids, - On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass, - Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.
Animal Husbandry			
Livestock	Stage	Disease	Precautionary Practices to be followed
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. - 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.
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



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			against swine fever (Vaccines available in State Veterinary Departs)
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 few days prior to feeding. - Fish feed should be stored in cool and dry place to avoid 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.



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13thOctober – 17thOctober, 2018 chungsa sik leh sa dinhmun tur tlangpui

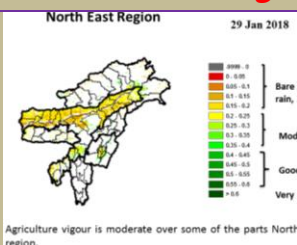
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Cloud cover: Mainly cloudy
Wind speed: 3.25 km/hr

Tun ni 5 chung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-28°C a ni ang a. A vawh lai ber in 19-20°C ni tura beisei a ni. RH san lai berin 92-100% leh a hniam lai berin 34-100%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 chung hian khawdur tak hmuh beisei a ni.

Rainfall: 23.5 mm

Weekly cumulative rainfall:212.0mm

NDVI for 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	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 tawh 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.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		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 <i>Azospirillum</i> leh <i>Phosphobacterium</i> 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 hlih 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 lain 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 fimkhur 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 sawngbawl 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, P₂O₅ leh



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			K₂O/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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Mizoram Centre, Kolasib- 796081, MIZORAM

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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.
		Phytophthora 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.

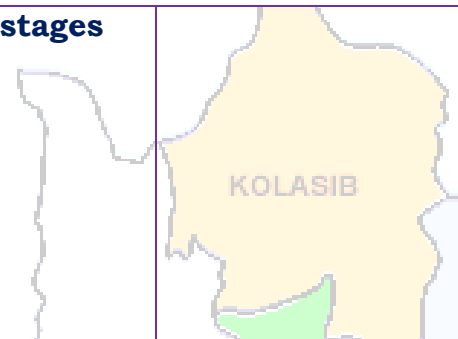
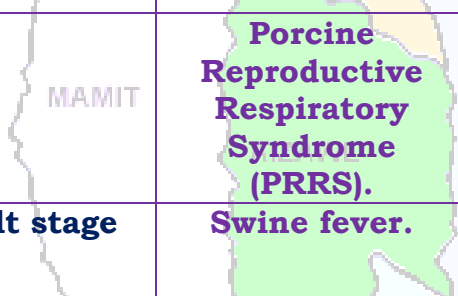
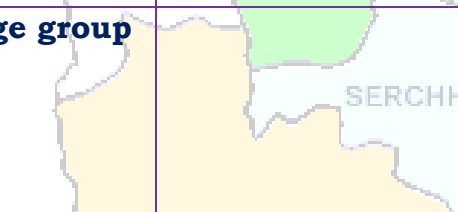
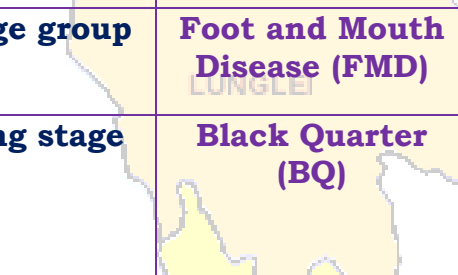
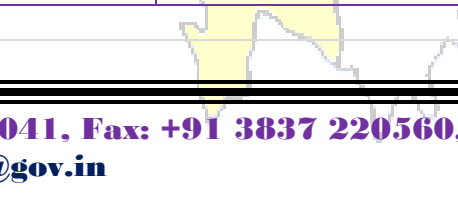


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			1. Vawknote emaw vawk lak hran.
	Adult stage		2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm 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		Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		- 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 enkawltha 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	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
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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