



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Aizawl

Period: 17 - 21 August, 2016

Bulletin No: - 628/2016/ Bulletin/English

Date of issue: 16th August, 2016

Parameters	17.08.2016	18.08.2016	19.08.2016	20.08.2016	21.08.2016
Rainfall (mm)	10	4	3	3	5
Max Temp (°C)	33	33	34	34	34
Min Temp (°C)	23	23	24	24	24
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	98	98	98	98
Min RH (%)	71	69	82	73	70
Wind Speed (Kmph)	3	2	2	2	2
*Wind Direction	E	E	E	S-W	W

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- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):24-27 °C
Minimum Tem. (°C): 17-19 °C
Maximum RH (%):95-100%
Minimum RH (%):61-86%
Wind Direction: Southeasterly

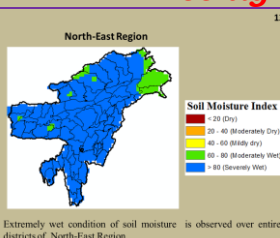
Rainfall: 75.3 mm

Weather forecast valid from 17th August, 2016 To 21st August, 2016.

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 33-34°C and 23-24°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 69-82%. Wind direction would be easterly to southwesterly and westerly with the wind speed of 2-3 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 25.0 mm

NDVI for Mizoram



Extremely wet condition of soil moisture is observed over entire districts of North-East Region.

Extremely wet condition occur in all district of Mizoram



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplanting to vegetative stage	Citrus cancar	- In north-eastern parts of India, Khasi mandarins are very closely spaced (6 m. X 6 m.), accommodating more than 120 plants/ha. - Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water). - Before transferring seedlings the soil mixture should be treated with carbendazim @0.05% i.e (Bavistin 1.0 g/litre of water). - Urea 0.5% of seedling solution (5g/lit. water has to be sprayed at fortnight interval to increase the growth of seedling. - Care should be taken to avoid water stagnation in the bags.
		Citrus leaf minor and butterfly	- Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lit or bactericides Blitox 50 WG @ 0.01g/lit can provide a barrier against infection, but they will not treat an existing infection. - Control minor infections limited to a small area of the tree by pruning away the affected parts. - Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Dia back disease	- Remove all infected plant and burm it. - Pruning of effected part spraying with carbendazim/Bordeaux mixture 1.0%
Passion Fruit	Vegetative to flowering stage		- Clean near the base of the plant. - In dry spell apply mulch with grass. - Trellises are in the north-south



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			direction to minimize the shades during early morning and late evening. - Young vines are trained to grow along the wire support of the trellises. - Apply 100: 50:100g as NPK per plant in dry days.
		Banana Rhizome weevil	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	Flowering to fruit formation stage		- Clear near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
		Aphid and mite	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	Harvest stage		- A basal golden yellow coloration at the base is the sign of a ripe fruit. - Fresh fruits destined for the local market are plucked when almost ripe. - Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
		Rat damage	- Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation. - Minimize the alternate food sources and secured habitation by removing the weeds



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			and crop residues in/ around the fields. ✦ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
Oil plam	Vegetative stage	KOLASIB MAMIT AIZAWL CHAMPA	✦ Cleaning near base of the plant and cut unwanted branches. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt). ✦ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✦ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Colocasia	Vegetative stage	SERCHHIP LUNGLEI	✦ Remove unwanted plant near base of the plant and cut dead branches. ✦ Earthing up soil at base of the plant along with split doses of fertilizer. ✦ Proper drainage is required to avoid water logging. ✦ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	✦ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	LAWNGTLAI SAIHA	✦ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✦ Weeding can be done by hoeing as and when necessary. ✦ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✦ Harvest all mature fruit.



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		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Harvesting stage	KOLASIB	- Harvest all mature fruit. - Keep over mature fruit for seed production. - Keep dry fruits in sun for drying and store for next year
		Okra leafroller	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Cowpea	Fruit initiation to harvest	AIZAWL	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Harvesting stage	LUNGLEI	- Harvest all mature fruit. - Keep over mature fruit for seed production. - Extract seeds from full ripped or over matured fruit. - Keep extracted for sun dry and keep for next year.
		Shoot and fruit borer	- Collect and destroy infected parts of the plant. - Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
		Brinjal leaf beetle	Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Ginger and turmeric	Vegetative stage	LAWNGTLAI	- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of



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		KOLASIB	1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pre kharif Rice	Panicle Initiation to booting stage	AIZAWL	✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging
		Rice yellow stem borer	✚ Cut leaf tip from the seedling. ✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pre kharif Maize	Harvesting stage	SERCHHIP	✚ Harvest all the matured and immature cobs. ✚ Keep all matured cobs for sundry. ✚ Hang all matured cobs in smoke.
Kharif Maize	Tasseling to silking stage	LUNGLEI	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earting up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer	✚ Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Kharif pulses (Green gram, Black gram and Rajma)	Flowering to pod formation stage	LAWNGTLAI	✚ Remove unwanted plant from terrace and riser. ✚ Remove all infected pant and burn it.
		Aphid and bug	✚ Manually collect and destroy the insect. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0



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			g or dimethoate 2 ml/lit of water.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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Date of issue: 16th August, 2016

Parameters	17.08.2016	18.08.2016	19.08.2016	20.08.2016	21.08.2016
Rainfall (mm)	10	4	3	3	5
Max Temp (°C)	33	33	34	34	34
Min Temp (°C)	23	23	24	24	24
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	98	98	98	98
Min RH (%)	71	69	82	73	70
Wind Speed (Kmph)	3	2	2	2	2
*Wind Direction	E	E	E	S-W	W

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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

Ni thum kalta sik leh sa dinhmun tlangpui

17th August – 21st August, 2016 chhunga sik leh sa dinhmun tur tlangpui

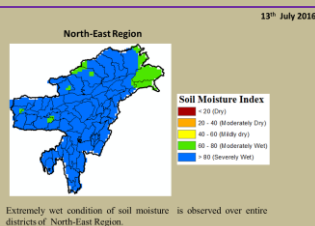
Maximum Tem. (°C):24-27 °C
Minimum Tem. (°C): 17-19 °C
Maximum RH (%):95-100%
Minimum RH (%):61-86%
Wind Direction: Southeasterly

Ni 4 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 34-36°C a ni ang a. A vawh lai berin 26-27°C ni tura beisei a ni. RH san lai berin 96-99% leh a hniam lai berin 62-81% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.

Rainfall: 75.3 mm

Weekly cumulative rainfall: 36.0mm

NDVI for Mizoram



Extremely wet condition occur in all district of Mizoram



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Phun sawn (transplant) hun		- Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmuna phun tur a ni. - Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni. - Kung lian deuh chi 12-25ft inkar hlat a chin tur a ni a, kung te deuh chi erawh 6-10ft inkar hlata chin tur a ni. Kung puitling a len poh leh an inkar tih hlat tur a ni. - Tui tling insah vat theih lohna hmun (ruah sur zawha tui a tlin rei thinna hmun) ah chuan ser tiak chu hmun tih pawn chawp ah phun tur a ni. - Ser tiak phun lo a, a chi a chin duh chuan ser rah duhthusam atangin a chi lak tur a ni. A chi chu zankhuain tuiah chiaah tur a ni a, A tukah Lei hnawng awmna pot (moist pot) ah ½ inch vela thukah tuh tur a ni. Pot chu plastic bag emaw, sarangin emaw tuam a, Ni zung hmuh thatna leh hmun lumah a rawn to chhuah hma chu dah tur a ni. Chumi zawhah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.
		Citrus Cancar	- Tui litre khatah Copper Oxy Chloride 50%WP hi 2g emaw Blitox 50WG 0.01g hi emaw pawlh a, chu tui chu kung hrisel ah kah hian Citrus Cancar natna a veng thei a, he natna veisa kung ah chuan hman loh tur a ni thung. - Kung tlemte chauhin he natna an



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			vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.
		Citrus leafminior and butterfly 	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
Oil Palm	A tet lai		- Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni. - Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzatz theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni. - Oil palm tiak chu 2.5cm vela thuk in phum tur. - Nitin tui pek tur. - A tiak pakhat tan leitha SSP, MOP leh Mg_2SO_4 cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni. - A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni. - Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.
	Par a chhuah hma		- A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni. - Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni. - Micro-nutrients (zinc, copper, boron, manganese, iron leh molybdenum) te hi pek thin tur an ni. Pek that loh chuan huan pumpui chhiatna a thlen thei a ni.



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			Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.
Balhla	A par lai		- Balhla kung bul vel - tihfai a a hnah ro te thlak bawk tur. - Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur.
			Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
			Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.
	A hmin hun		- Balhla hi a par atanga ni 120-140 inkarah a hmin tlangpui. - A raha kil a reh hnu, a mam pal hunah seng chauh tur a ni. - Balhla bu a puitlin tawh chuan a hnah chung ber a ro tan thin.
			Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.
			A rah hunlaia polythene bag-a a kung tuam hian rannung thenkhat lakah a veng ve a ni.
Sapthei	Phunsawn hunlai		- Rah chhuah tha, virus kai lo thlan tur a ni. - Phunsawn atana kan lak hian a



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		KOLASIB	kunga chawrno (bud) 3 tal a keng tel tur a ni. - Phun sawn veleh hian maul eh polythene a siam hmun uap tak tak (chamber) 0 ah dah tur a ni. Grafting (a kung zawm): - Sapthei chhung eng (yellow) hi polythene bag ah an phun a, Rahangala hybrid kung tantawi nen an zawm thin.
	Par a chhuah hma	MAMIT AIZAWL CHAMPAI	- A bulhnai vel tihfai that tur. - Khaw ro lai chuan a zung bulah lei rihvur a, hnimhnah dah bawk tur a ni. - Zingkar leh tlai lama Ni a hmuh that theihnan Hmarthlang lam hawitir tur a ni. - A zar no ho a zamna tur siam mumal tur.
		Aphid SERCHHIP	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw, acephate 1.0g emaw dimethoate 2ml emaw, tui litre khatah pawlh a, kah tur.
Lakhuihthei	A seng hunlai	LUNGLEI	- A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni. - Local market (khawchhunga hralh nghal tur) atan chuan a hmin tan lek lek ah seng tur. - Thawnchhuah tur atan erawh chuan a rawng a eng (yellow) hma hretah seng tur a ni.
		Rat damage (Sazu in a tihchhiat) LAWNGTLAI SAIHA	- Sazu bu leh kua vel tihchhiat a, a hmun vel fai taka enkawl tur. - Sazu chaw vel a awm loh nan hnim vel tihfai that tur. - Sazu an tam viau chuan sazu tur 2% Zinc phosphide (96% buh nawi, 2% edible oil leh 2%ZnP) hman tur a ni.
Colocasia	Par a chhuah hma		A bul vel tihfai that a, a zar tangkai lo ho paih tur.



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		KOLASIB	- A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennan tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni.
		Corm borer	Thlai bul (plant base) ah rannung tui hmuh a nih chuan ram hectare khat hmunah Carbofuran 3G 1.5kg a.i hi thlai zung bulah hman tur a ni.
Cucurbitaceous crops	A seng hun	AIZAWL CHAMPAI	- A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. - Tuthlawh hmangin hnim thlawh mai tur a ni. - Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni. - A rah puitling ho chu seng nghal zel tur a ni.
		Fruit fly	Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrh Saiabe	A par hma deuh atang a par thleng	LUNGLEI	- A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni. - A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni. - Ruahtui tling a awm loh nan tui luankawr mumal siam tur a ni. - A rah puitling apiang seng zel tur a ni.
		Okra leafroller	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Behlawi	Rah a chhuah tan	LAWNGTLAI SAIHA	A bul vel tihfai that a, a zar

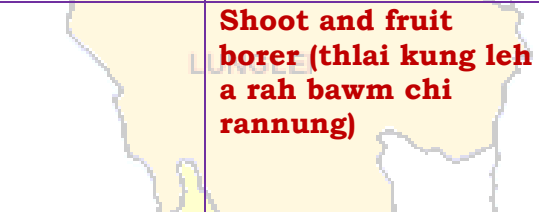


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	atanga seng hun thleng		tangkai lo ho paih tur. - A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah baw a ni. - A rah puitling apiang seng zel tur.
Bawkbawn	Rah a chhuah tan atanga seng hun thleng		- A bul vel tihfai that a, a zar tangkai lo ho paih tur. - Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnim to tam tur a veng. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, thlai thang a tichak baw. - Ram Hactare khata zauah leitha Urea 50kg hi hmun hnihah thenin vawihnih phul tur a ni. - A rah puitling apiang seng zel tur.
			- Natna in a tihchhiat tawh thlai peng lakthlak a paih tur. - Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
			Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.
Kharif rice (Buh fur laia chin chi)	Phun sawn hunlai		- Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur. - Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur.



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			Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Kharif rice	A peng insiamtur zawng zawng insiam zawh hnu lawk	KOLASIB	- A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur. - Leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luanna mumal tak siam tur.
Pre Kharif Rice	A vui inseam tan lai	MAMIT	- A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur. - Leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luanna mumal tak siam tur.
		Rice yellow stem borer	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Vaimim fur hma a seng chi	A seng hun	SERCHHIP	- A rah zawng zawng seng vek tur. - Keh hun zawng ni saah phoro tur. - Vaimim chi chu rapah rep tur.
Vaimim fur hma hreta seng chi	A kung puitlin hun	LUNGLEI	- A kung bul vela hnim vel tihfai that tur. - Leitha nena rihvur tur. - Leitha vawi hnih pek tur.
		Maize cob borer (vaimim kawm bawmtu rannung)	0.1% endosulfan {2ml (35EC)} hi tui litre khatah pawlh a, ni 30 hnuah vaimim hnahah kah tur.
Sawhthing leh Aieng	Par a chhuah hma	LAWNGTLAI SAIHA	- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha⁻¹, Pendimethalin (Stomp)



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			@ 1-1.5kg a.i ha ⁻¹ te hian hnimhnah lian lampang chi a veng a ni.
		Turmeric shoot borer (Aieng kung ei chhetu rannung)	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Kharif pulses (Green gram, Black gram and Rajma)	Par a chhuah atanga rah a chhuah thleng		- A bul vela hnim leh thlaidang lo to ve te that a paih tur. - A kung bulah rih vur tur. - Natna kai tawh thlai te lakkhawm a halral tur.
		Aphid and bug	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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District: Champhai

Period: 17 - 21 August, 2016

Bulletin No: - 628/2016/ Bulletin/English

Date of issue: 16th August, 2016

Parameters	17.08.2016	18.08.2016	19.08.2016	20.08.2016	21.08.2016
Rainfall (mm)	11	10	4	7	9
Max Temp (°C)	33	33	34	34	34
Min Temp (°C)	23	23	24	24	24
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	97	99	99
Min RH (%)	77	74	84	70	70
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	E	S-E	S-W	S

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- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C): 26-29 °C
Minimum Tem. (°C): 21-22 °C
Maximum RH (%): 72-98%
Minimum RH (%): 58-81%
Wind Direction: Southwesterly

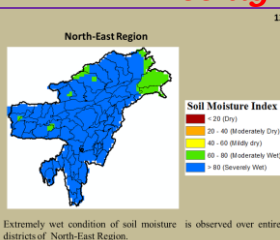
Rainfall: 75.8 mm

Weather forecast valid from 17th August, 2016 To 21st August, 2016.

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 33-34°C and 23-24°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 70-84%. Wind direction would be easterly to southeasterly to southwesterly and southerly with the wind speed of 2 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 41.0 mm

NDVI for Mizoram



Extremely wet condition occur in all district of Mizoram



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplanting to vegetative stage	Citrus cancar	- In north-eastern parts of India, Khasi mandarins are very closely spaced (6 m. X 6 m.), accommodating more than 120 plants/ha. - Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water). - Before transferring seedlings the soil mixture should be treated with carbendazim @0.05% i.e (Bavistin 1.0 g/litre of water). - Urea 0.5% of seedling solution (5g/lit. water has to be sprayed at fortnight interval to increase the growth of seedling. - Care should be taken to avoid water stagnation in the bags.
		Citrus leaf minor and butterfly	- Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lit or bactericides Blitox 50 WG @ 0.01g/lit can provide a barrier against infection, but they will not treat an existing infection. - Control minor infections limited to a small area of the tree by pruning away the affected parts. - Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Dia back disease	- Remove all infected plant and burm it. - Pruning of effected part spraying with carbendazim/Bordeaux mixture 1.0%
Passion Fruit	Vegetative to flowering stage		- Clean near the base of the plant. - In dry spell apply mulch with grass. - Trellises are in the north-south



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			direction to minimize the shades during early morning and late evening. ✚ Young vines are trained to grow along the wire support of the trellises. ✚ Apply 100: 50:100g as NPK per plant in dry days.
		Aphid and mite	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Banana	Flowering to fruit formation stage		✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
		Banana Rhizome weevil	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Pineapple	Harvest stage		✚ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✚ Fresh fruits destined for the local market are plucked when almost ripe. ✚ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
		Rat damage	✚ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation. ✚ Minimize the alternate food sources and secured habitation by removing the weeds



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			and crop residues in/ around the fields. ✚ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
Oil plam	Vegetative stage	KOLASIB MAMIT AIZAWL CHAMPAI	✚ Cleaning near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Colocasia	Vegetative stage	SERCHHIP LUNGLEI	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	LAWNGTLAI SAIHA	✚ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✚ Weeding can be done by hoeing as and when necessary. ✚ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✚ Harvest all mature fruit.



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		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Harvesting stage	KOLASIB	- Harvest all mature fruit. - Keep over mature fruit for seed production. - Keep dry fruits in sun for drying and store for next year
		Okra leafroller	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Cowpea	Fruit initiation to harvest	AIZAWL	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Harvesting stage	SERCHHIP	- Harvest all mature fruit. - Harvest all mature fruit. - Keep over mature fruit for seed production. - Extract seeds from full ripped or over matured fruit. - Keep extracted for sun dry and keep for next year.
		LUNGLEI	
		Shoot and fruit borer	- Collect and destroy infected parts of the plant. - Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Tomato	Nursery stage	Land preparation	- 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)
		LAWNGTLAI	
		SAIHA	
		Damping off	Seed treatment with thiram 3g/kg seed or



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			Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Early Cole crop	Nursery stage	Land preparation	✚ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Raised bed, nursery bed solarisation. ✓ Bed should be 1m width and conventional length. ✓ Application of FYM (1.5-2.0 kg/ m²) ✓ Line sowing of seeds (7-10cm)
		Damping off	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed. ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Ginger and turmeric	Vegetative stage		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pre kharif Rice	Panicle Initiation to booting stage		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging
		Rice yellow stem borer	✚ Cut leaf tip from the seedling. ✚ Collect and destroy infected parts of the



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			plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pre kharif Maize	Harvesting stage	KOLASIB	✚ Harvest all the matured and immature cobs. ✚ Keep all matured cobs for sundry. ✚ Hang all matured cobs in smoke.
Kharif Maize	Tasseling to silking stage		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earting up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer	✚ Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
		Aphid and bug	✚ Manually collect and destroy the insect. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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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: 17 - 21 August, 2016

Bulletin No: - 628/2016/ Bulletin/Mizo

Date of issue: 16th August, 2016

Parameters	17.08.2016	18.08.2016	19.08.2016	20.08.2016	21.08.2016
Rainfall (mm)	11	10	4	7	9
Max Temp (°C)	33	33	34	34	34
Min Temp (°C)	23	23	24	24	24
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	97	99	99
Min RH (%)	77	74	84	70	70
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	E	S-E	S-W	S

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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

**Ni thum kalta sik leh sa
dinhmun tlangpui**

**17th August – 21st August, 2016 chhunga sik
leh sa dinhmun tur tlangpui**

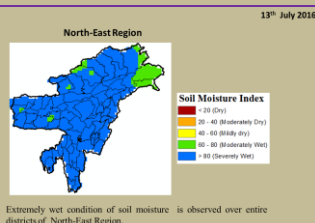
Maximum Tem. (°C): 26-29 °C
Minimum Tem. (°C): 21-22 °C
Maximum RH (%):72-98%
Minimum RH (%):58-81%
Wind Direction: Southwesterly

Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 33-34°C a ni ang a. A vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 70-84% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam hawi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.

Rainfall: 75.8 mm

Weekly cumulative rainfall: 41.0mm

NDVI for Mizoram



Extremely wet condition occur in all district of Mizoram

Thlai/ ran

Spat zawng

Hmalakna tur/

Agricultural/Horticultural/ animal



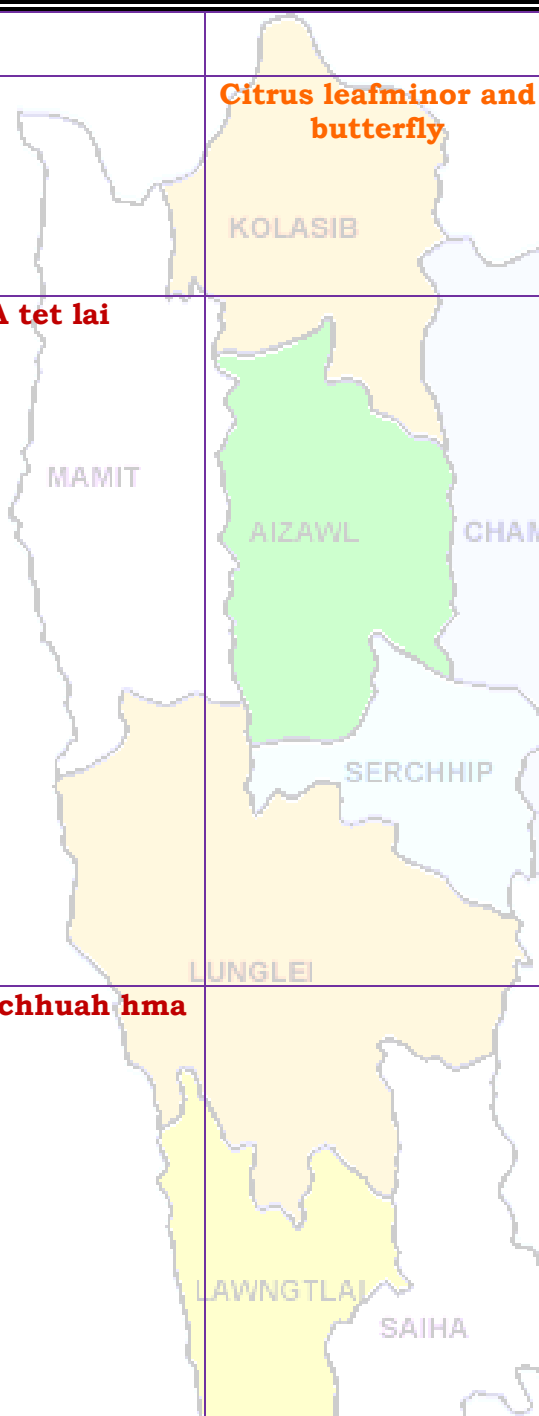
GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



/sangha		rannung leh natna hrik awm thei te	husbandry atana thurawn
Khasi Mandarin and acid lime	Phun sawn (transplant) hun		- Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmunah phun tur a ni. - Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni. - Kung lian deuh chi 12-25ft inkar hlat a chin tur a ni a, kung te deuh chi erawh 6-10ft inkar hlata chin tur a ni. Kung puitling a len poh leh an inkar tih hlat tur a ni. - Tui tling insah vat theih lohna hmun (ruah sur zawha tui a tlin rei thinna hmun) ah chuan ser tiak chu hmun tih pawn chawp ah phun tur a ni. - Ser tiak phun lo a, a chi a chin duh chuan ser rah duhthusam atangin a chi lak tur a ni. A chi chu zankhuain tuiah chiaah tur a ni a, A tukah Lei hnawng awmna pot (moist pot) ah ½ inch vela thukah tuh tur a ni. Pot chu plastic bag emaw, sarangin emaw tuam a, Ni zung hmuh thatna leh hmun lumah a rawn to chhuah hma chu dah tur a ni. Chumi zawhah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.
		Citrus Cancar 	- Tui litre khatah Copper Oxy Chloride 50%WP hi 2g emaw Blitox 50WG 0.01g hi emaw pawlh a, chu tui chu kung hrisel ah kah hian Citrus Cancar natna a veng thei a, he natna veisa kung ah chuan hman loh tur a ni thung. - Kung tlemte chauhin he natna an vei chuan a natna kai ho chu kung

			hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.
		Citrus leafminer and butterfly	✚ Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
Oil Palm	A tet lai		✚ Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni. ✚ Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni. ✚ Oil palm tiak chu 2.5cm vela thuk in phum tur. ✚ Nitin tui pek tur. ✚ A tiak pakhat tan leitha SSP, MOP leh Mg_2SO_4 cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni. ✚ A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni. ✚ Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.
	Par a chhuah hma		✚ A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni. ✚ Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni. ✚ Micro-nutrients (zinc, copper, boron, manganese, iron leh molybdenum) te hi pek thin tur an ni. Pek that loh chuan huan pumpui chhiatna a thlen thei a ni. ✚ Oil palm rah te hi a rah a hmin



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			hun, rawng mit la tak a rawn nih hunah seng tur a ni.
Balhla	A par lai	KOLASIB	- Balhla kung bul vel - tihfai a a hnah ro te thlak baw tur. - Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that baw tur.
		MAMIT	
		Banana Rhizome weevil	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
		Banana-panama wilt	Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin baw tur a ni.
		SERCHHIP	
	A hmin hun	LUNGLEI	- Balhla hi a par atanga ni 120-140 inkarah a hmin tlangpui. - A raha kil a reh hnu, a mam pal hunah seng chauh tur a ni. - Balhla bu a puitlin tawh chuan a hnah chung ber a ro tan thin.
		Banana fruit caterpillar	Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.
		Banana thrips	A rah hunlaia polythene bag-a a kung tuam hian rannung thenkhat lakah a veng ve a ni.
		LAWNGTLAI	
Sapthei	Phunsawn hunlai	SAIHA	- Rah chhuah tha, virus kai lo thlan tur a ni. - Phunsawn atana kan lak hian a kunga chawrno (bud) 3 tal a keng



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		KOLASIB	tel tur a ni. - Phun sawn veleh hian maul eh polythene a siam hmun uap tak tak (chamber)\0 ah dah tur a ni. Grafting (a kung zawm): - Sapthei chhung eng (yellow) hi polythene bag ah an phun a, Rahangala hybrid kung tantawi nen an zawm thin.
	Par a chhuah hma	MAMIT AIZAWL CHAMPAI	- A bulhnai vel tihfai that tur. - Khaw ro lai chuan a zung bulah lei rihvur a, hnimhnah dah bawk tur a ni. - Zingkar leh tlai lama Ni a hmuh that theihnan Hmarthlang lam hawitir tur a ni. - A zar no ho a zamna tur siam mumal tur.
		Aphid SERCHHIP	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw, acephate 1.0g emaw dimethoate 2ml emaw, tui litre khatah pawlh a, kah tur.
Lakhuihthei	A seng hunlai	LUNGLEI	- A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni. - Local market (khawchhunga hralh nghal tur) atan chuan a hmin tan lek lek ah seng tur. - Thawnchhuah tur atan erawh chuan a rawng a eng (yellow) hma hretah seng tur a ni.
		Rat damage (Sazu in a tihchhiat) LAWNGTLAI SAIHA	- Sazu bu leh kua vel tihchhiat a, a hmun vel fai taka enkawl tur. - Sazu chaw vel a awm loh nan hnim vel tihfai that tur. - Sazu an tam viau chuan sazu tur 2% Zinc phosphide (96% buh nawi, 2% edible oil leh 2%ZnP) hman tur a ni.
Colocasia	Par a chhuah hma		- A bul vel tihfai that a, a zar tangkai lo ho paih tur. - A zung bul rih vur a leitha



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		KOLASIB	vawihnih pek tur. ✚ Tui tling tur vennan tui haw luankawr mumal tak siam tur. ✚ A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni.
		Corm borer	✚ Thlai bul (plant base) ah rannung tui hmuh a nih chuan ram hectare khat hmunah Carbofuran 3G 1.5kg a.i hi thlai zung bulah hman tur a ni.
Cucurbitaceous crops	A seng hun	MAMIT AIZAWL CHAMPAL	✚ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ✚ Tuthlawh hmangin hnim thlawh mai tur a ni. ✚ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni. ✚ A rah puitling ho chu seng nghal zel tur a ni.
		Fruit fly	✚ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrhsaiabe	A par hma deuh atang a par thleng	LUNGLEI	✚ A hnah ro vel pawthlak a, a kung bul vel tih fai bawk tur a ni. ✚ A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni. ✚ Ruahtui tling a awm loh nan tui luankawr mumal siam tur a ni. ✚ A rah puitling apiang seng zel tur a ni.
		Okra leafroller	✚ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Behlawi	Rah a chhuah tan atanga seng hun	LAWNGTLAI SAIHA	✚ A bul vel tihfai that a, a zar tang kai lo ho paih tur.

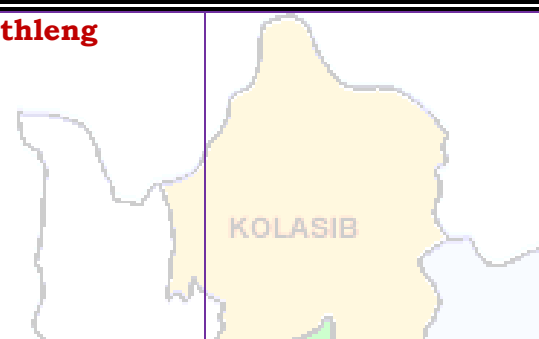
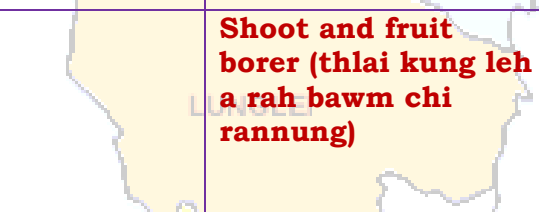
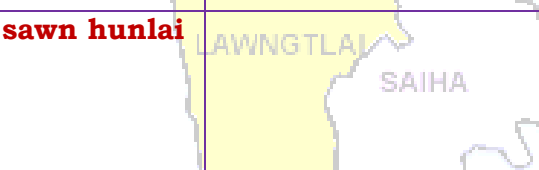


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Mizoram Centre, Kolasib- 796081, MIZORAM

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	thleng		- A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennan tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni. - A rah puitling apiang seng zel tur.
Bawkbawn	Rah a chhuah tan atanga seng hun thleng		- A bul vel tihfai that a, a zar tangkai lo ho paih tur. - Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnim to tam tur a veng. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, thlai thang a tichak bawk. - Ram Hactare khata zauah leitha Urea 50kg hi hmun hnihah thenin vawihnih phul tur a ni. - A rah puitling apiang seng zel tur.
			- Natna in a tihchhiat tawh thlai peng lakthlak a paih tur. - Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
			Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin) emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.
Kharif rice (Buh fur laia chin chi)	Phun sawn hunlai		- Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur. - Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur. - Buh phunna tlar leh tlar inkar



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			20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Kharif rice	A peng insiamtur zawng zawng insiam zawh hnu lawk	KOLASIB	- A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur. - Leitha vawihnih pek tur. - Tui tling tur vennan tui hawk luanna mumal tak siam tur.
Pre Kharif Rice	A vui inseam tan lai	MAMIT	- A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur. - Leitha vawihnih pek tur. - Tui tling tur vennan tui hawk luanna mumal tak siam tur.
		Rice yellow stem borer	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Vaimim fur hma a seng chi	A seng hun	SERCHHIP	- A rah zawng zawng seng vek tur. - Keh hun zawng ni saah phoro tur. - Vaimim chi chu rapah rep tur.
Vaimim fur hma hreta seng chi	A kung puitlin hun	LUNGLEI	- A kung bul vela hnim vel tihfai that tur. - Leitha nena rihvur tur. - Leitha vawi hnih pek tur.
		Maize cob borer (vaimim kawm bawmtu rannung)	0.1% endosulfan {2ml (35EC)} hi tui litre khatah pawlh a, ni 30 hnuah vaimim hnahah kah tur.
Sawhthing leh Aieng	Par a chhuah hma	LAWNGTLAI SAIHA	- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha⁻¹, Pendimethalin (Stomp) @ 1-1.5kg a.i ha⁻¹ te hian



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			hnimhnah lian lampang chi a veng a ni.
		Turmeric shoot borer (Aieng kung ei chhetu ranning)	✚ Ranning hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Kharif pulses (Green gram, Black gram and Rajma)	Par a chhuah atanga rah a chhuah thleng		✚ A bul vela hnim leh thlaidang lo to ve te that a paih tur. ✚ A kung bulah rih vur tur. ✚ Natna kai tawh thlai te lakkhawm a halral tur.
		Aphid and bug	✚ Ranning hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	• Black Quarter Vaccine (BQ) ✚ Thla ruk an tlin hunah vaccine lak tan tur. ✚ Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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District: Kolasib

Period: 17 - 21 August, 2016

Bulletin No: - 628/2016/ Bulletin/English

Date of issue: 16th August, 2016

Parameters	17.08.2016	18.08.2016	19.08.2016	20.08.2016	21.08.2016
Rainfall (mm)	7	6	3	5	6
Max Temp (°C)	33	33	33	34	34
Min Temp (°C)	24	24	25	25	25
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	98	99	98	99
Min RH (%)	67	68	82	77	71
Wind Speed (Kmph)	2	2	0	2	2
*Wind Direction	E	E	E	W	W

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- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C): 28-30 °C
Minimum Tem. (°C): 22-23 °C
Maximum RH (%):99-100%
Minimum RH (%):65-91%
Wind Direction: Southeasterly
Wind speed: 2 km/hr
Cloud cover: Mainly cloudy

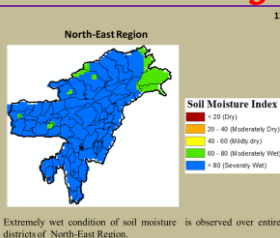
Rainfall: 141.2 mm

Weather forecast valid from 17th August, 2016 To 21st August, 2016.

There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 33-34°C and 24-25°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 67-82%. Wind direction would be easterly to westerly with the wind speed of 0-2 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 27.0 mm

NDVI for Mizoram



Extremely wet condition occur in all district of Mizoram



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



Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplanting to vegetative stage		- In north-eastern parts of India, Khasi mandarins are very closely spaced (6 m. X 6 m.), accommodating more than 120 plants/ha. - Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water). - Before transferring seedlings the soil mixture should be treated with carbendazim @0.05% i.e (Bavistin 1.0 g/litre of water). - Urea 0.5% of seedling solution (5g/lit. water has to be sprayed at fortnight interval to increase the growth of seedling. - Care should be taken to avoid water stagnation in the bags.
		Citrus canker	- Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lit or bactericides Blitox 50 WG @ 0.01g/lit can provide a barrier against infection, but they will not treat an existing infection. - Control minor infections limited to a small area of the tree by pruning away the affected parts. - Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminer and butterfly	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Dia back disease	- Remove all infected plant and burm it. - Pruning of effected part spraying with carbendazim/Bordeaux mixture 1.0%
Passion Fruit	Vegetative to flowering stage		- Clean near the base of the plant. - In dry spell apply mulch with grass. - Trellises are in the north-south



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			direction to minimize the shades during early morning and late evening. ✚ Young vines are trained to grow along the wire support of the trellises. ✚ Apply 100: 50:100g as NPK per plant in dry days.
		Aphid and mite	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Banana	Flowering to fruit formation stage		✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
		Banana Rhizome weevil	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Pineapple	Harvest stage		✚ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✚ Fresh fruits destined for the local market are plucked when almost ripe. ✚ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
		Rat damage	✚ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation. ✚ Minimize the alternate food sources and secured habitation by removing the weeds



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			and crop residues in/ around the fields. ✚ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
Oil plam	Vegetative stage	KOLASIB MAMIT AIZAWL CHAMPA	✚ Cleaning near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Colocasia	Vegetative stage	SERCHHIP LUNGLEI	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	LAWNGTLAI SAIHA	✚ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✚ Weeding can be done by hoeing as and when necessary. ✚ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✚ Harvest all mature fruit.



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		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Harvesting stage	KOLASIB	- Harvest all mature fruit. - Keep over mature fruit for seed production. - Keep dry fruits in sun for drying and store for next year
		Okra leafroller	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Cowpea	Fruit initiation to harvest	AIZAWL	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Harvesting stage	LUNGLEI	- Harvest all mature fruit. - Keep over mature fruit for seed production. - Extract seeds from full ripped or over matured fruit. - Keep extracted for sun dry and keep for next year.
		Shoot and fruit borer	- Collect and destroy infected parts of the plant. - Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
		Brinjal leaf beetle	Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Ginger and turmeric	Vegetative stage	LAWNGTLAI	- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of



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		KOLASIB	1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pre kharif Rice	Panicle Initiation to booting stage	AIZAWL	✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging
		Rice yellow stem borer	✚ Cut leaf tip from the seedling. ✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pre kharif Maize	Harvesting stage	SERCHHIP	✚ Harvest all the matured and immature cobs. ✚ Keep all matured cobs for sundry. ✚ Hang all matured cobs in smoke.
Kharif Maize	Tasseling to silking stage	LUNGLEI	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earting up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer	✚ Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
		Aphid and bug	✚ Manually collect and destroy the insect. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pig	All stages	LAWNGTLAI SAIHA Porcine Reproductive Respiratory	1. Culling of positive pigs or piglets.



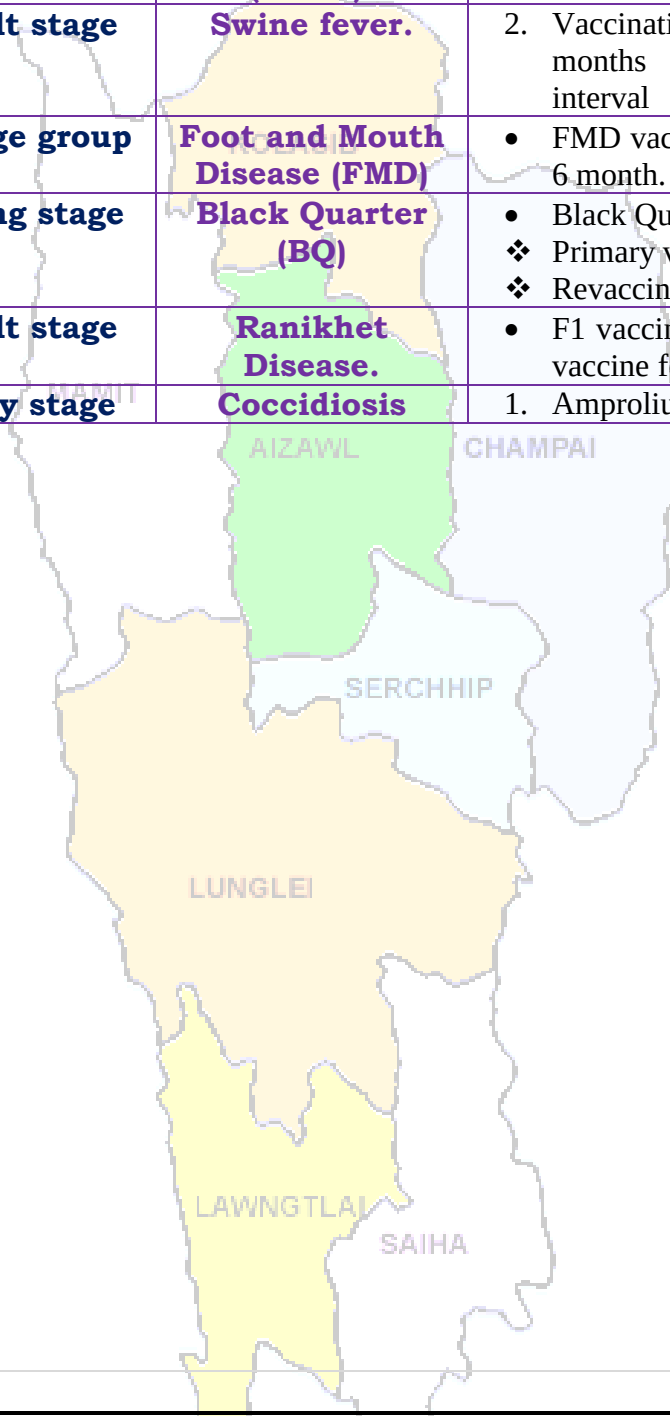
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		Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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District: Kolasib

Period: 17 - 21 August, 2016

Bulletin No: - 628/2016/ Bulletin/Mizo

Date of issue: 16th August, 2016

Parameters	17.08.2016	18.08.2016	19.08.2016	20.08.2016	21.08.2016
Rainfall (mm)	7	6	3	5	6
Max Temp (°C)	33	33	33	34	34
Min Temp (°C)	24	24	25	25	25
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	98	99	98	99
Min RH (%)	67	68	82	77	71
Wind Speed (Kmph)	2	2	0	2	2
*Wind Direction	E	E	E	W	W

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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

Ni thum kalta sik leh sa dinhmun tlangpui

17th August – 21st August, 2016 chhunga sik leh sa dinhmun tur tlangpui

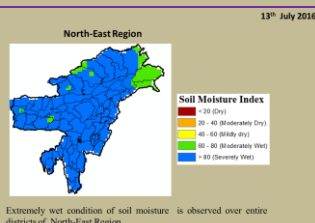
Maximum Tem. (°C): 28-30 °C
Minimum Tem. (°C): 22-23 °C
Maximum RH (%):99-100%
Minimum RH (%):65-91%
Wind Direction: Southeasterly
Wind speed: 2 km/hr
Cloud cover: Mainly cloudy

Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 33-34°C a ni ang a. A vawh lai berin 24-25°C ni tura beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 67-82% ni tur a rin niin. Thli hi darkar khatah 0-2 km vela chakin chhaklam hawi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.

Rainfall: 141.2 mm

Weekly cumulative rainfall: 27.0mm

NDVI for Mizoram



Extremely wet condition occur in all district of Mizoram



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Phun sawn (transplant) hun		- Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmuna phun tur a ni. - Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni. - Kung lian deuh chi 12-25ft inkar hlat a chin tur a ni a, kung te deuh chi erawh 6-10ft inkar hlata chin tur a ni. Kung puitling a len poh leh an inkar tih hlat tur a ni. - Tui tling insah vat theih lohna hmun (ruah sur zawha tui a tlin rei thinna hmun) ah chuan ser tiak chu hmun tih pawn chawp ah phun tur a ni. - Ser tiak phun lo a, a chi a chin duh chuan ser rah duhthusam atangin a chi lak tur a ni. A chi chu zankhuain tuiah chiaah tur a ni a, A tukah Lei hnawng awmna pot (moist pot) ah ½ inch vela thukah tuh tur a ni. Pot chu plastic bag emaw, sarangin emaw tuam a, Ni zung hmuh thatna leh hmun lumah a rawn to chhuah hma chu dah tur a ni. Chumi zawhah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.
		Citrus Cancar	- Tui litre khatah Copper Oxy Chloride 50%WP hi 2g emaw Blitox 50WG 0.01g hi emaw pawlh a, chu tui chu kung hrisel ah kah hian Citrus Cancar natna a veng thei a, he natna veisa kung ah chuan hman loh tur a ni thung. - Kung tlemte chauhin he natna an



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			vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.
		Citrus leafminior and butterfly 	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
Oil Palm	A tet lai		- Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni. - Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzatz theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni. - Oil palm tiak chu 2.5cm vela thuk in phum tur. - Nitin tui pek tur. - A tiak pakhat tan leitha SSP, MOP leh Mg_2SO_4 cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni. - A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni. - Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.
	Par a chhuah hma		- A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni. - Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni. - Micro-nutrients (zinc, copper, boron, manganese, iron leh molybdenum) te hi pek thin tur an ni. Pek that loh chuan huan pumpui chhiatna a thlen thei a ni.



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			Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.
Balhla	A par lai		- Balhla kung bul vel - tihfai a a hnah ro te thlak bawk tur. - Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur.
		Banana Rhizome weevil	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
		Banana panama wilt	Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.
	A hmin hun		- Balhla hi a par atanga ni 120-140 inkarah a hmin tlangpui. - A raha kil a reh hnu, a mam pal hunah seng chauh tur a ni. - Balhla bu a puitlin tawh chuan a hnah chung ber a ro tan thin.
		Banana fruit caterpillar	Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.
		Banana thrips	A rah hunlaia polythene bag-a a kung tuam hian rannung thenkhat lakah a veng ve a ni.
Sapthei	Phunsawn hunlai		- Rah chhuah tha, virus kai lo thlan tur a ni. - Phunsawn atana kan lak hian a



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		KOLASIB	kunga chawrno (bud) 3 tal a keng tel tur a ni. - Phun sawn veleh hian maul eh polythene a siam hmun uap tak tak (chamber) 0 ah dah tur a ni. Grafting (a kung zawm): - Sapthei chhung eng (yellow) hi polythene bag ah an phun a, Rahangala hybrid kung tantawi nen an zawm thin.
	Par a chhuah hma	MAMIT AIZAWL CHAMPAI	- A bulhnai vel tihfai that tur. - Khaw ro lai chuan a zung bulah lei rihvur a, hnimhnah dah bawk tur a ni. - Zingkar leh tlai lama Ni a hmuh that theihnan Hmarthlang lam hawitir tur a ni. - A zar no ho a zamna tur siam mumal tur.
		Aphid SERCHHIP	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw, acephate 1.0g emaw dimethoate 2ml emaw, tui litre khatah pawlh a, kah tur.
Lakhuihthei	A seng hunlai	LUNGLEI	- A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni. - Local market (khawchhunga hralh nghal tur) atan chuan a hmin tan lek lek ah seng tur. - Thawnchhuah tur atan erawh chuan a rawng a eng (yellow) hma hretah seng tur a ni.
		Rat damage (Sazu in a tihchhiat) LAWNGTLAI SAIHA	- Sazu bu leh kua vel tihchhiat a, a hmun vel fai taka enkawl tur. - Sazu chaw vel a awm loh nan hnim vel tihfai that tur. - Sazu an tam viau chuan sazu tur 2% Zinc phosphide (96% buh nawi, 2% edible oil leh 2%ZnP) hman tur a ni.
Colocasia	Par a chhuah hma		A bul vel tihfai that a, a zar tangkai lo ho paih tur.



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		KOLASIB	- A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni.
		Corm borer	Thlai bul (plant base) ah rannung tui hmuh a nih chuan ram hectare khat hmunah Carbofuran 3G 1.5kg a.i hi thlai zung bulah hman tur a ni.
Cucurbitaceous crops	A seng hun	AIZAWL CHAMPAI	- A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. - Tuthlawh hmangin hnim thlawh mai tur a ni. - Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni. - A rah puitling ho chu seng nghal zel tur a ni.
		Fruit fly	Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrh Saiabe	A par hma deuh atang a par thleng	LUNGLEI	- A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni. - A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni. - Ruahtui tling a awm loh nan tui luankawr mumal siam tur a ni. - A rah puitling apiang seng zel tur a ni.
		Okra leafroller	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Behlawi	Rah a chhuah tan	LAWNGTLAI SAIHA	A bul vel tihfai that a, a zar



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	atanga seng hun thleng		tangkai lo ho paih tur. - A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni. - A rah puitling apiang seng zel tur.
Bawkbawn	Rah a chhuah tan atanga seng hun thleng		- A bul vel tihfai that a, a zar tangkai lo ho paih tur. - Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnim to tam tur a veng. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, thlai thang a tichak bawk. - Ram Hactare khata zauah leitha Urea 50kg hi hmun hnihah thenin vawihnih phul tur a ni. - A rah puitling apiang seng zel tur.
			Shoot and fruit borer (thlai kung leh a rah bawm chi rannung) - Natna in a tihchhiat tawh thlai peng lakthlak a paih tur. - Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
			Brinjal leaf beetle Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.
Kharif rice (Buh fur laia chin chi)	Phun sawn hunlai		- Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur. - Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur.



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			Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Kharif rice	A peng insiamtur zawng zawng insiam zawh hnu lawk	KOLASIB	- A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur. - Leitha vawihnih pek tur. - Tui tling tur vennan tui hawk luanna mumal tak siam tur.
Pre Kharif Rice	A vui inseam tan lai	MAMIT	- A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur. - Leitha vawihnih pek tur. - Tui tling tur vennan tui hawk luanna mumal tak siam tur.
		Rice yellow stem borer	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Vaimim fur hma a seng chi	A seng hun	SERCHHIP	- A rah zawng zawng seng vek tur. - Keh hun zawng ni saah phoro tur. - Vaimim chi chu rapah rep tur.
Vaimim fur hma hreta seng chi	A kung puitlin hun	LUNGLEI	- A kung bul vela hnim vel tihfai that tur. - Leitha nena rihvur tur. - Leitha vawi hnih pek tur.
		Maize cob borer (vaimim kawm bawmtu rannung)	0.1% endosulfan {2ml (35EC)} hi tui litre khatah pawlh a, ni 30 hnuah vaimim hnahah kah tur.
Sawhthing leh Aieng	Par a chhuah hma	LAWNGTLAI SAIHA	- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha⁻¹, Pendimethalin (Stomp)



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			@ 1-1.5kg a.i ha ⁻¹ te hian hnimhnah lian lampang chi a veng a ni.
		Turmeric shoot borer (Aieng kung ei chhetu rannung)	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Kharif pulses (Green gram, Black gram and Rajma)	Par a chhuah atanga rah a chhuah thleng		- A bul vela hnim leh thlaidang lo to ve te that a paih tur. - A kung bulah rih vur tur. - Natna kai tawh thlai te lakkhawm a halral tur.
		Aphid and bug	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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District: Lawngtlai

Period: 17 - 21 August, 2016

Bulletin No: - 628/2016/ Bulletin/English

Date of issue: 16th August, 2016

Parameters	17.08.2016	18.08.2016	19.08.2016	20.08.2016	21.08.2016
Rainfall (mm)	9	8	3	4	8
Max Temp (°C)	33	33	34	34	35
Min Temp (°C)	24	24	25	25	25
Cloud Coverage	Partially clear	Partially clear	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	96	95	95	97	96
Min RH (%)	78	68	67	65	73
Wind Speed (Kmph)	7	5	4	4	3
*Wind Direction	E	S-E	E	S-E	E

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

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C): 26-28°C
Minimum Tem. (°C): 20-22°C
Maximum RH (%):89-94%
Minimum RH (%):58-84%
Wind Direction: Southerly
Cloud cover: Mainly cloudy

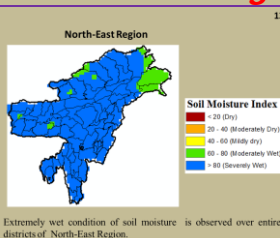
Rainfall: 58.9 mm

Weather forecast valid from 17th August, 2016 To 21st August, 2016.

There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 33-35°C and 24-25°C. Maximum relative humidity is expected in the range of 96-97% and minimum may from 65-78%. Wind direction would be easterly to southeasterly to easterly to southeasterly and easterly with the wind speed of 3-7 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 32.0 mm

NDVI for Mizoram



Extremely wet condition occur in all district of Mizoram



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplanting to vegetative stage	Citrus cancar	- In north-eastern parts of India, Khasi mandarins are very closely spaced (6 m. X 6 m.), accommodating more than 120 plants/ha. - Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water). - Before transferring seedlings the soil mixture should be treated with carbendazim @0.05% i.e (Bavistin 1.0 g/litre of water). - Urea 0.5% of seedling solution (5g/lit. water has to be sprayed at fortnight interval to increase the growth of seedling. - Care should be taken to avoid water stagnation in the bags.
		Citrus leaf minor and butterfly	- Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. - Control minor infections limited to a small area of the tree by pruning away the affected parts. - Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Dia back disease	- Remove all infected plant and burm it. - Pruning of effected part spraying with carbendazim/Bordeaux mixture 1.0%
Passion Fruit	flowering to fruiting stage		- Clean near the base of the plant. - In dry spell apply mulch with grass. - Trellises are in the north-south



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			direction to minimize the shades during early morning and late evening. - Young vines are trained to grow along the wire support of the trellises. - Apply 100: 50:100g as NPK per plant in dry days.
		Aphid and mite	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Banana	Flowering to fruit formation stage		- Clear near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
		Banana Rhizome weevil	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Pineapple	Harvest stage		- A basal golden yellow coloration at the base is the sign of a ripe fruit. - Fresh fruits destined for the local market are plucked when almost ripe. - Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
		Rat damage	- Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation. - Minimize the alternate food sources and secured habitation by removing the weeds



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			and crop residues in/ around the fields. ✚ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
Oil plam	Vegetative stage	KOLASIB MAMIT AIZAWL CHAMPAI	✚ Cleaning near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Colocasia	Vegetative stage	SERCHHIP LUNGLEI	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	LAWNGTLAI SAIHA	✚ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✚ Weeding can be done by hoeing as and when necessary. ✚ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✚ Harvest all mature fruit.



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		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Harvesting stage	KOLASIB	- Harvest all mature fruit. - Don't harvest all mature fruit at a time. - Keep over mature fruit for seed production. - Keep dry fruits in sun for drying and store for next year
		Okra leafroller	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Cowpea	Fruit initiation to harvest	AIZAWL	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. - Harvest all mature fruit.
Brinjal	Harvesting stage	LUNGLEI	- Harvest all mature fruit. - Don't harvest all mature fruit at a time. - Keep over mature fruit for seed production. - Extract seeds from full ripped or over matured fruit. - Keep extracted for sun dry and keep for next year.
		Shoot and fruit borer	- Collect and destroy infected parts of the plant. - Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
		Brinjal leaf beetle	Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Ginger and turmeric	Vegetative stage		Remove unwanted plant near base of the plant and cut dead branches.



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		KOLASIB	- Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pre kharif Rice	Panicle Initiation to booting stage	AIZAWL	- Remove unwanted plant by hand weeding. - Apply split dose of fertilizer. - Proper drainage is required to avoid water logging
		Rice yellow stem borer	- Cut leaf tip from the seedling. - Collect and destroy infected parts of the plant. - Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pre kharif Maize	Harvesting stage	SERCHHIP	- Harvest all the matured and immature cobs. - Keep all matured cobs for sundry. - Hang all matured cobs in smoke.
Kharif Maize	Tasseling to silking stage	LUNGLEI	- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Apply split dose of fertilizer.
		Maize cob borer	Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
		Aphid and bug	- Manually collect and destroy the insect. - Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pig	All stages	Porcine	Culling of positive pigs or piglets.



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		Reproductive Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lawngtlai

Period: 17 - 21 August, 2016

Bulletin No: - 628/2016/ Bulletin/Mizo

Date of issue: 16th August, 2016

Parameters	17.08.2016	18.08.2016	19.08.2016	20.08.2016	21.08.2016
Rainfall (mm)	9	8	3	4	8
Max Temp (°C)	33	33	34	34	35
Min Temp (°C)	24	24	25	25	25
Cloud Coverage	Partially clear	Partially clear	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	96	95	95	97	96
Min RH (%)	78	68	67	65	73
Wind Speed (Kmph)	7	5	4	4	3
*Wind Direction	E	S-E	E	S-E	E

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

Ni thum kalta sik leh sa dinhmun tlangpui

17th August – 21st August, 2016 chhunga sik leh sa dinhmun tur tlangpui

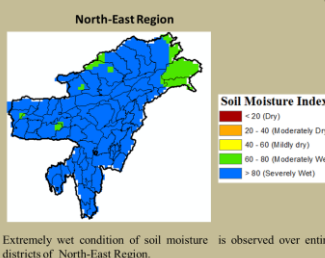
Maximum Tem. (°C): 26-28°C
Minimum Tem. (°C): 20-22°C
Maximum RH (%):89-94%
Minimum RH (%):58-84%
Wind Direction: Southerly
Cloud cover: Mainly cloudy

Ni 3 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 33-35°C a ni ang a. A vawh lai berin 24-25°C ni tura beisei a ni. RH san lai berin 96-97% leh a hniam lai berin 65-78% ni tur a rin niin. Thli hi darkar khatah 3-7 km vela chakin chhaklam hawi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.

Rainfall: 58.9 mm

Weekly cumulative rainfall: 32.0mm

NDVI for Mizoram



Extremely wet condition occur in all district of Mizoram



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)



Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Phun sawn (transplant) hun		- Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmunah phun tur a ni. - Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni. - Kung lian deuh chi 12-25ft inkar hlat a chin tur a ni a, kung te deuh chi erawh 6-10ft inkar hlata chin tur a ni. Kung puitling a len poh leh an inkar tih hlat tur a ni. - Tui tling insah vat theih lohna hmun (ruah sur zawha tui a tlin rei thinna hmun) ah chuan ser tiak chu hmun tih pawn chawp ah phun tur a ni. - Ser tiak phun lo a, a chi a chin duh chuan ser rah duhthusam atangin a chi lak tur a ni. A chi chu zankhuain tuiah chiaah tur a ni a, A tukah Lei hnawng awmna pot (moist pot) ah ½ inch vela thukah tuh tur a ni. Pot chu plastic bag emaw, sarangin emaw tuam a, Ni zung hmuh thatna leh hmun lumah a rawn to chhuah hma chu dah tur a ni. Chumi zawhah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.
		Citrus Cancar	- Tui litre khatah Copper Oxy Chloride 50%WP hi 2g emaw Blitox 50WG 0.01g hi emaw pawlh a, chu tui chu kung hrisel ah kah hian Citrus Cancar natna a veng thei a, he natna veisa kung ah chuan hman loh tur a ni thung. - Kung tlemte chauhin he natna an



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			vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.
		Citrus leafminior and butterfly 	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
Oil Palm	A tet lai		- Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni. - Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzatz theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni. - Oil palm tiak chu 2.5cm vela thuk in phum tur. - Nitin tui pek tur. - A tiak pakhat tan leitha SSP, MOP leh Mg_2SO_4 cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni. - A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni. - Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.
	Par a chhuah hma		- A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni. - Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni. - Micro-nutrients (zinc, copper, boron, manganese, iron leh molybdenum) te hi pek thin tur an ni. Pek that loh chuan huan pumpui chhiatna a thlen thei a ni.



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			Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.
Balhla	A par lai		- Balhla kung bul vel - tihfai a a hnah ro te thlak bawk tur. - Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur.
		Banana Rhizome weevil	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
		Banana panama wilt	Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.
	A hmin hun		- Balhla hi a par atanga ni 120-140 inkarah a hmin tlangpui. - A raha kil a reh hnu, a mam pal hunah seng chauh tur a ni. - Balhla bu a puitlin tawh chuan a hnah chung ber a ro tan thin.
		Banana fruit caterpillar	Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.
		Banana thrips	A rah hunlaia polythene bag-a a kung tuam hian rannung thenkhat lakah a veng ve a ni.
Sapthei	Phunsawn hunlai		- Rah chhuah tha, virus kai lo thlan tur a ni. - Phunsawn atana kan lak hian a



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		KOLASIB	kunga chawrno (bud) 3 tal a keng tel tur a ni. - Phun sawn veleh hian maul eh polythene a siam hmun uap tak tak (chamber) 0 ah dah tur a ni. Grafting (a kung zawm): - Sapthei chhung eng (yellow) hi polythene bag ah an phun a, Rahangala hybrid kung tantawi nen an zawm thin.
	Par a chhuah hma	MAMIT AIZAWL CHAMPAI	- A bulhnai vel tihfai that tur. - Khaw ro lai chuan a zung bulah lei rihvur a, hnimhnah dah bawk tur a ni. - Zingkar leh tlai lama Ni a hmuh that theihnan Hmarthlang lam hawitir tur a ni. - A zar no ho a zamna tur siam mumal tur.
		Aphid SERCHHIP	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw, acephate 1.0g emaw dimethoate 2ml emaw, tui litre khatah pawlh a, kah tur.
Lakhuihthei	A seng hunlai	LUNGLEI	- A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni. - Local market (khawchhunga hralh nghal tur) atan chuan a hmin tan lek lek ah seng tur. - Thawnchhuah tur atan erawh chuan a rawng a eng (yellow) hma hretah seng tur a ni.
		Rat damage (Sazu in a tihchhiat) LAWNGTLAI SAIHA	- Sazu bu leh kua vel tihchhiat a, a hmun vel fai taka enkawl tur. - Sazu chaw vel a awm loh nan hnim vel tihfai that tur. - Sazu an tam viau chuan sazu tur 2% Zinc phosphide (96% buh nawi, 2% edible oil leh 2%ZnP) hman tur a ni.
Colocasia	Par a chhuah hma		A bul vel tihfai that a, a zar tangkai lo ho paih tur.



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		KOLASIB	- A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni.
		Corm borer	Thlai bul (plant base) ah rannung tui hmuh a nih chuan ram hectare khat hmunah Carbofuran 3G 1.5kg a.i hi thlai zung bulah hman tur a ni.
Cucurbitaceous crops	A seng hun	AIZAWL CHAMPAI	- A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. - Tuthlawh hmangin hnim thlawh mai tur a ni. - Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni. - A rah puitling ho chu seng nghal zel tur a ni.
		Fruit fly	Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrh Saiabe	A par hma deuh atang a par thleng	LUNGLEI	- A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni. - A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni. - Ruahtui tling a awm loh nan tui luankawr mumal siam tur a ni. - A rah puitling apiang seng zel tur a ni.
		Okra leafroller	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Behlawi	Rah a chhuah tan	LAWNGTLAI SAIHA	A bul vel tihfai that a, a zar



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	atanga seng hun thleng		tangkai lo ho paih tur. - A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah baw a ni. - A rah puitling apiang seng zel tur.
Bawkbawn	Rah a chhuah tan atanga seng hun thleng		- A bul vel tihfai that a, a zar tangkai lo ho paih tur. - Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnim to tam tur a veng. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, thlai thang a tichak baw. - Ram Hactare khata zauah leitha Urea 50kg hi hmun hnihah thenin vawihnih phul tur a ni. - A rah puitling apiang seng zel tur.
			Shoot and fruit borer (thlai kung leh a rah bawm chi ranning) - Natna in a tihchhiat tawh thlai peng lakthlak a paih tur. - Ranning hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
			Brinjal leaf beetle Ranning thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.
Kharif rice (Buh fur laia chin chi)	Phun sawn hunlai		- Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur. - Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur.



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			Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Kharif rice	A peng insiamtur zawng zawng insiam zawh hnu lawk	KOLASIB	- A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur. - Leitha vawihnih pek tur. - Tui tling tur vennan tui hawk luanna mumal tak siam tur.
Pre Kharif Rice	A vui inseam tan lai	MAMIT	- A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur. - Leitha vawihnih pek tur. - Tui tling tur vennan tui hawk luanna mumal tak siam tur.
		Rice yellow stem borer	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Vaimim fur hma a seng chi	A seng hun	SERCHHIP	- A rah zawng zawng seng vek tur. - Keh hun zawng ni saah phoro tur. - Vaimim chi chu rapah rep tur.
Vaimim fur hma hreta seng chi	A kung puitlin hun	LUNGLEI	- A kung bul vela hnim vel tihfai that tur. - Leitha nena rihvur tur. - Leitha vawi hnih pek tur.
		Maize cob borer (vaimim kawm bawmtu rannung)	0.1% endosulfan {2ml (35EC)} hi tui litre khatah pawlh a, ni 30 hnuah vaimim hnahah kah tur.
Sawhthing leh Aieng	Par a chhuah hma	LAWNGTLAI SAIHA	- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha⁻¹, Pendimethalin (Stomp)



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			@ 1-1.5kg a.i ha ⁻¹ te hian hnimhnah lian lampang chi a veng a ni.
		Turmeric shoot borer (Aieng kung ei chhetu rannung)	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Kharif pulses (Green gram, Black gram and Rajma)	Par a chhuah atanga rah a chhuah thleng		- A bul vela hnim leh thlaidang lo to ve te that a paih tur. - A kung bulah rih vur tur. - Natna kai tawh thlai te lakkhawm a halral tur.
		Aphid and bug	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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District: Lunglei

Period: 17 - 21 August, 2016

Bulletin No: - 628/2016/ Bulletin/English

Date of issue: 16th August, 2016

Parameters	17.08.2016	18.08.2016	19.08.2016	20.08.2016	21.08.2016
Rainfall (mm)	8	7	3	4	5
Max Temp (°C)	33	33	34	34	34
Min Temp (°C)	23	23	24	24	24
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Partially clear	Partially clear
Max RH (%)	99	98	97	99	97
Min RH (%)	74	66	75	55	62
Wind Speed (Kmph)	4	3	3	2	2
*Wind Direction	E	S-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- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C): 22-24°C
Minimum Tem. (°C): 18-19°C
Maximum RH (%):86-98%
Minimum RH (%):55-76%
Wind Direction: Southwesterly
Cloud cover: Mainly cloudy

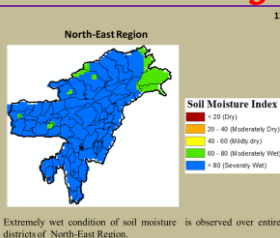
Rainfall: 54.9 mm

Weather forecast valid from 17th August, 2016 To 21st August, 2016.

There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 33-34°C and 23-24°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 55-75%. Wind direction would be easterly to southeasterly to southerly and easterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 27.0 mm

NDVI for Mizoram



Extremely wet condition of soil moisture is observed over entire districts of North-East Region.

Extremely wet condition occur in all district of Mizoram

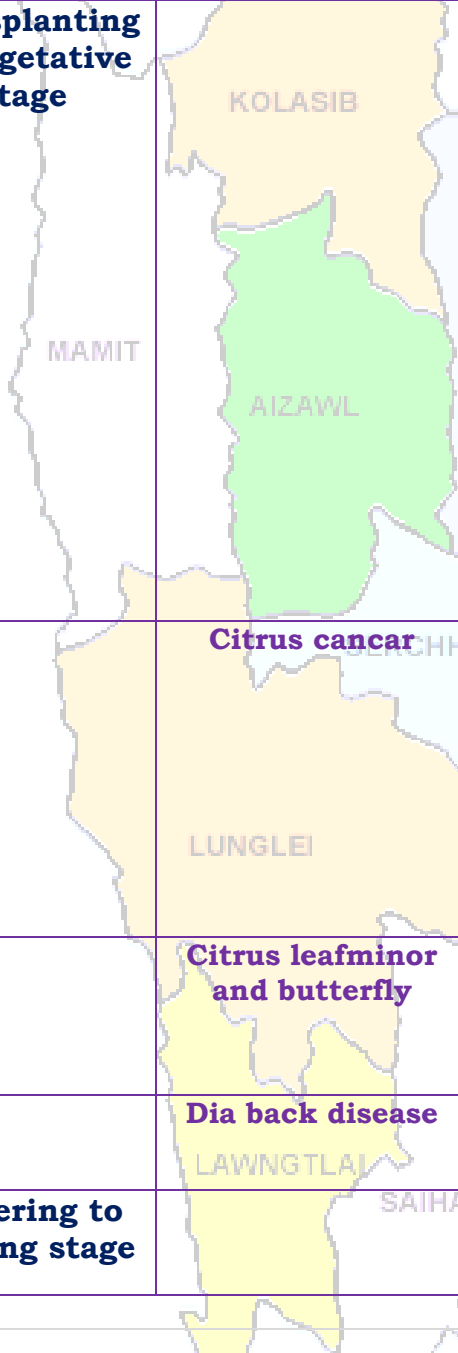


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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplanting to vegetative stage	 Citrus cancar	- In north-eastern parts of India, Khasi mandarins are very closely spaced (6 m. X 6 m.), accommodating more than 120 plants/ha. - Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water). - Before transferring seedlings the soil mixture should be treated with carbendazim @0.05% i.e (Bavistin 1.0 g/litre of water). - Urea 0.5% of seedling solution (5g/lit. water has to be sprayed at fortnight interval to increase the growth of seedling. - Care should be taken to avoid water stagnation in the bags.
		Citrus cancar	- Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lit or bactericides Blitox 50 WG @ 0.01g/lit can provide a barrier against infection, but they will not treat an existing infection. - Control minor infections limited to a small area of the tree by pruning away the affected parts. - Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leaf minor and butterfly	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Dia back disease	- Remove all infected plant and burm it. - Pruning of effected part spraying with carbendazim/Bordeaux mixture 1.0%
Passion Fruit	flowering to fruiting stage		- Clean near the base of the plant. - In dry spell apply mulch with grass. - Trellises are in the north-south



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			direction to minimize the shades during early morning and late evening. ✚ Young vines are trained to grow along the wire support of the trellises. ✚ Apply 100: 50:100g as NPK per plant in dry days.
		Aphid and mite	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Banana	Flowering to fruit formation stage		✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
		Banana Rhizome weevil	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Pineapple	Harvest stage		✚ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✚ Fresh fruits destined for the local market are plucked when almost ripe. ✚ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
		Rat damage	✚ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation. ✚ Minimize the alternate food sources and secured habitation by removing the weeds



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			and crop residues in/ around the fields. ✦ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
Oil plam	Vegetative stage	KOLASIB MAMIT AIZAWL CHAMPA	✦ Cleaning near base of the plant and cut unwanted branches. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt). ✦ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✦ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Colocasia	Vegetative stage	SERCHHIP LUNGLEI	✦ Remove unwanted plant near base of the plant and cut dead branches. ✦ Earthing up soil at base of the plant along with split doses of fertilizer. ✦ Proper drainage is required to avoid water logging. ✦ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	✦ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	LAWNGTLAI SAIHA	✦ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✦ Weeding can be done by hoeing as and when necessary. ✦ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✦ Harvest all mature fruit.



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		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Harvesting stage	KOLASIB	- Harvest all mature fruit. - Don't harvest all mature fruit at a time. - Keep over mature fruit for seed production. - Keep dry fruits in sun for drying and store for next year
		Okra leafroller	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Cowpea	Fruit initiation to harvest	AIZAWL	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. - Harvest all mature fruit.
Brinjal	Harvesting stage	LUNGLEI	- Harvest all mature fruit. - Don't harvest all mature fruit at a time. - Keep over mature fruit for seed production. - Extract seeds from full ripped or over matured fruit. - Keep extracted for sun dry and keep for next year.
		Shoot and fruit borer	- Collect and destroy infected parts of the plant. - Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
		Brinjal leaf beetle	Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Tomato	Nursery stage	Land preparation	- Nursery preparation for tomato. - Raised bed, nursery bed solarisation.



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			✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off KOLASIB	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	Vegetative stage	MAMIT	✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Early Cole crop	Nursery stage	Land preparation AIZAWL CHAMPHAI SERCHHIP	✚ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Raised bed, nursery bed solarisation. ✓ Bed should be 1m width and conventional length. ✓ Application of FYM (1.5-2.0 kg/ m²) ✓ Line sowing of seeds (7-10cm)
		Damping off LUNGLEI	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed. ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✚ Application of carbofuran 3G @100g/m² in nursery is quite effective.
Pre kharif Rice	Panicle Initiation to booting stage		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging
		Rice yellow stem borer LAWNGTLAI SAIHA	✚ Cut leaf tip from the seedling. ✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or



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Pre kharif Maize	Harvesting stage		dimethoate 2 ml/lit of water. ✚ Harvest all the matured and immature cobs. ✚ Keep all matured cobs for sundry. ✚ Hang all matured cobs in smoke.
Kharif Maize	Tasseling to silking stage		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earting up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer	✚ Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
		Aphid and bug	✚ Manually collect and destroy the insect. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Lunglei

Period: 17 - 21 August, 2016

Bulletin No: - 628/2016/ Bulletin/Mizo

Date of issue: 16th August, 2016

Parameters	17.08.2016	18.08.2016	19.08.2016	20.08.2016	21.08.2016
Rainfall (mm)	8	7	3	4	5
Max Temp (°C)	33	33	34	34	34
Min Temp (°C)	23	23	24	24	24
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Partially clear	Partially clear
Max RH (%)	99	98	97	99	97
Min RH (%)	74	66	75	55	62
Wind Speed (Kmph)	4	3	3	2	2
*Wind Direction	E	S-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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

Ni thum kalta sik leh sa dinhmun tlangpui

17th August – 21st August, 2016 chhunga sik leh sa dinhmun tur tlangpui

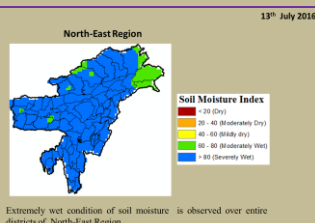
Maximum Tem. (°C): 22-24°C
Minimum Tem. (°C): 18-19°C
Maximum RH (%):86-98%
Minimum RH (%):55-76%
Wind Direction: Southwesterly
Cloud cover: Mainly cloudy

Ni 3 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 33-34°C a ni ang a. A vawh lai berin 23-24°C ni tura beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 55-75% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam hawi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.

Rainfall: 54.9 mm

Weekly cumulative rainfall: 27.0mm

NDVI for Mizoram



Extremely wet condition occur in all district of Mizoram



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Phun sawn (transplant) hun		- Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmuna phun tur a ni. - Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni. - Kung lian deuh chi 12-25ft inkar hlat a chin tur a ni a, kung te deuh chi erawh 6-10ft inkar hlata chin tur a ni. Kung puitling a len poh leh an inkar tih hlat tur a ni. - Tui tling insah vat theih lohna hmun (ruah sur zawha tui a tlin rei thinna hmun) ah chuan ser tiak chu hmun tih pawn chawp ah phun tur a ni. - Ser tiak phun lo a, a chi a chin duh chuan ser rah duhthusam atangin a chi lak tur a ni. A chi chu zankhuain tuiah chiaah tur a ni a, A tukah Lei hnawng awmna pot (moist pot) ah ½ inch vela thukah tuh tur a ni. Pot chu plastic bag emaw, sarangin emaw tuam a, Ni zung hmuh thatna leh hmun lumah a rawn to chhuah hma chu dah tur a ni. Chumi zawhah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.
		Citrus Cancar	- Tui litre khatah Copper Oxy Chloride 50%WP hi 2g emaw Blitox 50WG 0.01g hi emaw pawlh a, chu tui chu kung hrisel ah kah hian Citrus Cancar natna a veng thei a, he natna veisa kung ah chuan hman loh tur a ni thung. - Kung tlemte chauhin he natna an



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			vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.
		Citrus leafminior and butterfly 	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
Oil Palm	A tet lai		- Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni. - Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzatz theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni. - Oil palm tiak chu 2.5cm vela thuk in phum tur. - Nitin tui pek tur. - A tiak pakhat tan leitha SSP, MOP leh Mg_2SO_4 cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni. - A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni. - Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.
	Par a chhuah hma		- A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni. - Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni. - Micro-nutrients (zinc, copper, boron, manganese, iron leh molybdenum) te hi pek thin tur an ni. Pek that loh chuan huan pumpui chhiatna a thlen thei a ni.



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			Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.
Balhla	A par lai		- Balhla kung bul vel - tihfai a a hnah ro te thlak bawk tur. - Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur.
			Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
			Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.
	A hmin hun		- Balhla hi a par atanga ni 120-140 inkarah a hmin tlangpui. - A raha kil a reh hnu, a mam pal hunah seng chauh tur a ni. - Balhla bu a puitlin tawh chuan a hnah chung ber a ro tan thin.
			Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.
			A rah hunlaia polythene bag-a a kung tuam hian rannung thenkhat lakah a veng ve a ni.
Sapthei	Phunsawn hunlai		- Rah chhuah tha, virus kai lo thlan tur a ni. - Phunsawn atana kan lak hian a



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		KOLASIB	kunga chawrno (bud) 3 tal a keng tel tur a ni. - Phun sawn veleh hian maul eh polythene a siam hmun uap tak tak (chamber) 0 ah dah tur a ni. Grafting (a kung zawm): - Sapthei chhung eng (yellow) hi polythene bag ah an phun a, Rahangala hybrid kung tantawi nen an zawm thin.
	Par a chhuah hma	MAMIT AIZAWL CHAMPAI	- A bulhnai vel tihfai that tur. - Khaw ro lai chuan a zung bulah lei rihvur a, hnimhnah dah bawk tur a ni. - Zingkar leh tlai lama Ni a hmuh that theihnan Hmarthlang lam hawitir tur a ni. - A zar no ho a zamna tur siam mumal tur.
		Aphid SERCHHIP	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw, acephate 1.0g emaw dimethoate 2ml emaw, tui litre khatah pawlh a, kah tur.
Lakhuihthei	A seng hunlai	LUNGLEI	- A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni. - Local market (khawchhunga hralh nghal tur) atan chuan a hmin tan lek lek ah seng tur. - Thawnchhuah tur atan erawh chuan a rawng a eng (yellow) hma hretah seng tur a ni.
		Rat damage (Sazu in a tihchhiat) LAWNGTLAI SAIHA	- Sazu bu leh kua vel tihchhiat a, a hmun vel fai taka enkawl tur. - Sazu chaw vel a awm loh nan hnim vel tihfai that tur. - Sazu an tam viau chuan sazu tur 2% Zinc phosphide (96% buh nawi, 2% edible oil leh 2%ZnP) hman tur a ni.
Colocasia	Par a chhuah hma		A bul vel tihfai that a, a zar tangkai lo ho paih tur.



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		KOLASIB	- A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni.
		Corm borer	Thlai bul (plant base) ah rannung tui hmuh a nih chuan ram hectare khat hmunah Carbofuran 3G 1.5kg a.i hi thlai zung bulah hman tur a ni.
Cucurbitaceous crops	A seng hun	AIZAWL CHAMPAI	- A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. - Tuthlawh hmangin hnim thlawh mai tur a ni. - Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni. - A rah puitling ho chu seng nghal zel tur a ni.
		Fruit fly	Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrh Saiabe	A par hma deuh atang a par thleng	LUNGLEI	- A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni. - A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni. - Ruahtui tling a awm loh nan tui luankawr mumal siam tur a ni. - A rah puitling apiang seng zel tur a ni.
		Okra leafroller	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Behlawi	Rah a chhuah tan	LAWNGTLAI SAIHA	A bul vel tihfai that a, a zar



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	atanga seng hun thleng		tangkai lo ho paih tur. - A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni. - A rah puitling apiang seng zel tur.
Bawkbawn	Rah a chhuah tan atanga seng hun thleng		- A bul vel tihfai that a, a zar tangkai lo ho paih tur. - Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnim to tam tur a veng. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, thlai thang a tichak bawk. - Ram Hactare khata zauah leitha Urea 50kg hi hmun hnihah thenin vawihnih phul tur a ni. - A rah puitling apiang seng zel tur.
			Shoot and fruit borer (thlai kung leh a rah bawm chi ranning) - Natna in a tihchhiat tawh thlai peng lakthlak a paih tur. - Ranning hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
			Brinjal leaf beetle Ranning thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.
Kharif rice (Buh fur laia chin chi)	Phun sawn hunlai		- Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur. - Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur.



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			Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Kharif rice	A peng insiamtur zawng zawng insiam zawh hnu lawk	KOLASIB	- A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur. - Leitha vawihnih pek tur. - Tui tling tur vennan tui hawk luanna mumal tak siam tur.
Pre Kharif Rice	A vui inseam tan lai	MAMIT	- A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur. - Leitha vawihnih pek tur. - Tui tling tur vennan tui hawk luanna mumal tak siam tur.
		Rice yellow stem borer	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Vaimim fur hma a seng chi	A seng hun	SERCHHIP	- A rah zawng zawng seng vek tur. - Keh hun zawng ni saah phoro tur. - Vaimim chi chu rapah rep tur.
Vaimim fur hma hreta seng chi	A kung puitlin hun	LUNGLEI	- A kung bul vela hnim vel tihfai that tur. - Leitha nena rihvur tur. - Leitha vawi hnih pek tur.
		Maize cob borer (vaimim kawm bawmtu rannung)	0.1% endosulfan {2ml (35EC)} hi tui litre khatah pawlh a, ni 30 hnuah vaimim hnahah kah tur.
Sawhthing leh Aieng	Par a chhuah hma	LAWNGTLAI SAIHA	- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha⁻¹, Pendimethalin (Stomp)



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			@ 1-1.5kg a.i ha ⁻¹ te hian hnimhnah lian lampang chi a veng a ni.
		Turmeric shoot borer (Aieng kung ei chhetu rannung)	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Kharif pulses (Green gram, Black gram and Rajma)	Par a chhuah atanga rah a chhuah thleng		- A bul vela hnim leh thlaidang lo to ve te that a paih tur. - A kung bulah rih vur tur. - Natna kai tawh thlai te lakkhawm a halral tur.
		Aphid and bug	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Mamit

Period: 17 - 21 August, 2016

Bulletin No: - 628/2016/ Bulletin/English

Date of issue: 16th August, 2016

Parameters	17.08.2016	18.08.2016	19.08.2016	20.08.2016	21.08.2016
Rainfall (mm)	8	4	4	7	9
Max Temp (°C)	33	33	34	34	34
Min Temp (°C)	24	24	25	25	25
Cloud Coverage	Partially clear	Partially clear	Partially clear	Partially clear	Partially clear
Max RH (%)	99	97	97	97	97
Min RH (%)	67	67	73	66	65
Wind Speed (Kmph)	4	2	2	2	2
*Wind Direction	E	E	E	S-W	S

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- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C): 26-29°C
Minimum Tem. (°C): 22-23°C
Maximum RH (%):75-98%
Minimum RH (%):54-78%
Wind Direction: Southwesterly
Cloud cover: Mainly cloudy

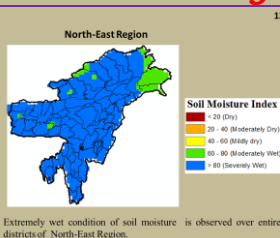
Rainfall: 68.9 mm

Weather forecast valid from 17th August, 2016 To 21st August, 2016.

There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 33-34°C and 24-25°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 66-73%. Wind direction would be easterly and southwesterly to southerly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 32.0 mm

NDVI for Mizoram



Extremely wet condition occur in all district of Mizoram



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplanting to vegetative stage	Citrus cancar	- In north-eastern parts of India, Khasi mandarins are very closely spaced (6 m. X 6 m.), accommodating more than 120 plants/ha. - Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water). - Before transferring seedlings the soil mixture should be treated with carbendazim @0.05% i.e (Bavistin 1.0 g/litre of water). - Urea 0.5% of seedling solution (5g/lit. water has to be sprayed at fortnight interval to increase the growth of seedling. - Care should be taken to avoid water stagnation in the bags.
		Citrus leaf minor and butterfly	- Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lit or bactericides Blitox 50 WG @ 0.01g/lit can provide a barrier against infection, but they will not treat an existing infection. - Control minor infections limited to a small area of the tree by pruning away the affected parts. - Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Dia back disease	- Remove all infected plant and burm it. - Pruning of effected part spraying with carbendazim/Bordeaux mixture 1.0%
Passion Fruit	Vegetative to flowering stage		- Clean near the base of the plant. - In dry spell apply mulch with grass. - Trellises are in the north-south



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			direction to minimize the shades during early morning and late evening. - Young vines are trained to grow along the wire support of the trellises. - Apply 100: 50:100g as NPK per plant in dry days.
		Aphid and mite	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Banana	Flowering to fruit formation stage		- Clear near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
		Banana Rhizome weevil	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Pineapple	Harvest stage		- A basal golden yellow coloration at the base is the sign of a ripe fruit. - Fresh fruits destined for the local market are plucked when almost ripe. - Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
		Rat damage	- Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation. - Minimize the alternate food sources and secured habitation by removing the weeds



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			and crop residues in/ around the fields. ✚ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
Oil plam	Vegetative stage	KOLASIB MAMIT AIZAWL CHAMPA	✚ Cleaning near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Colocasia	Vegetative stage	SERCHHIP LUNGLEI	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	LAWNGTLAI SAIHA	✚ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✚ Weeding can be done by hoeing as and when necessary. ✚ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✚ Harvest all mature fruit.



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		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Harvesting stage	KOLASIB	- Harvest all mature fruit. - Keep over mature fruit for seed production. - Keep dry fruits in sun for drying and store for next year
		Okra leafroller	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Cowpea	Fruit initiation to harvest	AIZAWL	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Harvesting stage	LUNGLEI	- Harvest all mature fruit. - Keep over mature fruit for seed production. - Extract seeds from full ripped or over matured fruit. - Keep extracted for sun dry and keep for next year.
		Shoot and fruit borer	- Collect and destroy infected parts of the plant. - Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
		Brinjal leaf beetle	Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Ginger and turmeric	Vegetative stage	LAWNGTLAI	- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of



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		KOLASIB	1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pre kharif Rice	Panicle Initiation to booting stage	AIZAWL	✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging
		Rice yellow stem borer	✚ Cut leaf tip from the seedling. ✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pre kharif Maize	Harvesting stage	SERCHHIP	✚ Harvest all the matured and immature cobs. ✚ Keep all matured cobs for sundry. ✚ Hang all matured cobs in smoke.
Kharif Maize	Tasseling to silking stage	LUNGLEI	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earting up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer	✚ Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
		Aphid and bug	✚ Manually collect and destroy the insect. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pig	All stages	SAIHA Porcine Reproductive Respiratory	1. Culling of positive pigs or piglets.



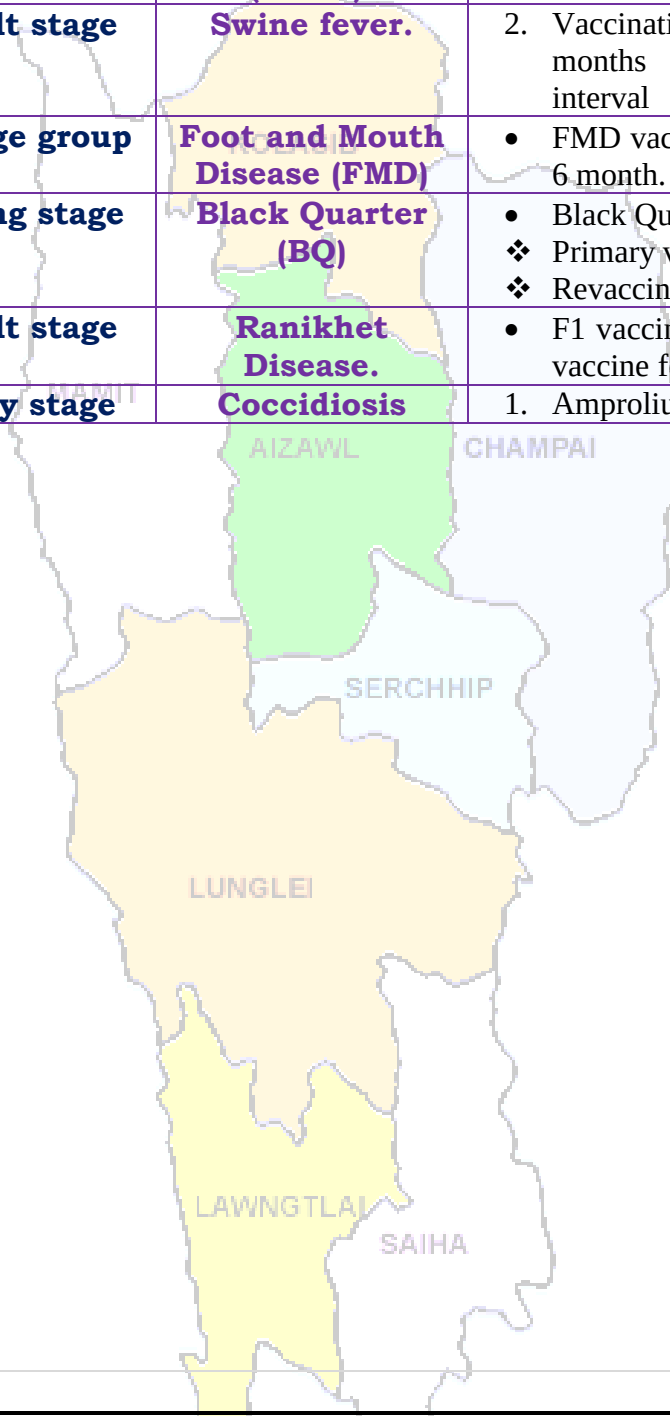
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		Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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District: Mamit

Period: 17 - 21 August, 2016

Bulletin No: - 628/2016/ Bulletin/Mizo

Date of issue: 16th August, 2016

Parameters	17.08.2016	18.08.2016	19.08.2016	20.08.2016	21.08.2016
Rainfall (mm)	8	4	4	7	9
Max Temp (°C)	33	33	34	34	34
Min Temp (°C)	24	24	25	25	25
Cloud Coverage	Partially clear	Partially clear	Partially clear	Partially clear	Partially clear
Max RH (%)	99	97	97	97	97
Min RH (%)	67	67	73	66	65
Wind Speed (Kmph)	4	2	2	2	2
*Wind Direction	E	E	E	S-W	S

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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

Ni thum kalta sik leh sa dinhmun tlangpui

17th August – 21st August, 2016 chhunga sik leh sa dinhmun tur tlangpui

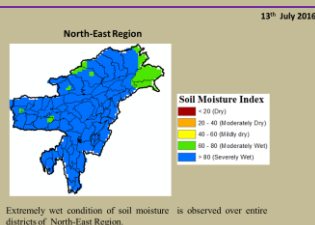
Maximum Tem. (°C): 26-29°C
Minimum Tem. (°C): 22-23°C
Maximum RH (%): 75-98%
Minimum RH (%): 54-78%
Wind Direction: Southwesterly
Cloud cover: Mainly cloudy

Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 33-34°C a ni ang a. A vawh lai berin 24-25°C ni tura beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 66-73% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam hawi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.

Rainfall: 68.9 mm

Weekly cumulative rainfall: 32.0mm

NDVI for Mizoram



Extremely wet condition occur in all district of Mizoram



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Phun sawn (transplant) hun		- Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmuna phun tur a ni. - Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni. - Kung lian deuh chi 12-25ft inkar hlat a chin tur a ni a, kung te deuh chi erawh 6-10ft inkar hlata chin tur a ni. Kung puitling a len poh leh an inkar tih hlat tur a ni. - Tui tling insah vat theih lohna hmun (ruah sur zawha tui a tlin rei thinna hmun) ah chuan ser tiak chu hmun tih pawn chawp ah phun tur a ni. - Ser tiak phun lo a, a chi a chin duh chuan ser rah duhthusam atangin a chi lak tur a ni. A chi chu zankhuain tuiah chiaah tur a ni a, A tukah Lei hnawng awmna pot (moist pot) ah ½ inch vela thukah tuh tur a ni. Pot chu plastic bag emaw, sarangin emaw tuam a, Ni zung hmuh thatna leh hmun lumah a rawn to chhuah hma chu dah tur a ni. Chumi zawhah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.
		Citrus Cancar	- Tui litre khatah Copper Oxy Chloride 50%WP hi 2g emaw Blitox 50WG 0.01g hi emaw pawlh a, chu tui chu kung hrisel ah kah hian Citrus Cancar natna a veng thei a, he natna veisa kung ah chuan hman loh tur a ni thung. - Kung tlemte chauhin he natna an



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			vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.
		Citrus leafminior and butterfly 	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
Oil Palm	A tet lai		- Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni. - Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzatz theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni. - Oil palm tiak chu 2.5cm vela thuk in phum tur. - Nitin tui pek tur. - A tiak pakhat tan leitha SSP, MOP leh Mg_2SO_4 cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni. - A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni. - Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.
	Par a chhuah hma		- A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni. - Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni. - Micro-nutrients (zinc, copper, boron, manganese, iron leh molybdenum) te hi pek thin tur an ni. Pek that loh chuan huan pumpui chhiatna a thlen thei a ni.



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			Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.
Balhla	A par lai		- Balhla kung bul vel - tihfai a a hnah ro te thlak bawk tur. - Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur.
			Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
			Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.
	A hmin hun		- Balhla hi a par atanga ni 120-140 inkarah a hmin tlangpui. - A raha kil a reh hnu, a mam pal hunah seng chauh tur a ni. - Balhla bu a puitlin tawh chuan a hnah chung ber a ro tan thin.
			Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.
			A rah hunlaia polythene bag-a a kung tuam hian rannung thenkhat lakah a veng ve a ni.
Sapthei	Phunsawn hunlai		- Rah chhuah tha, virus kai lo thlan tur a ni. - Phunsawn atana kan lak hian a



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		KOLASIB	kunga chawrno (bud) 3 tal a keng tel tur a ni. - Phun sawn veleh hian maul eh polythene a siam hmun uap tak tak (chamber) 0 ah dah tur a ni. Grafting (a kung zawm): - Sapthei chhung eng (yellow) hi polythene bag ah an phun a, Rahangala hybrid kung tantawi nen an zawm thin.
	Par a chhuah hma	MAMIT AIZAWL CHAMPAI	- A bulhnai vel tihfai that tur. - Khaw ro lai chuan a zung bulah lei rihvur a, hnimhnah dah bawk tur a ni. - Zingkar leh tlai lama Ni a hmuh that theihnan Hmarthlang lam hawitir tur a ni. - A zar no ho a zamna tur siam mumal tur.
		Aphid SERCHHIP	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw, acephate 1.0g emaw dimethoate 2ml emaw, tui litre khatah pawlh a, kah tur.
Lakhuihthei	A seng hunlai	LUNGLEI	- A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni. - Local market (khawchhunga hralh nghal tur) atan chuan a hmin tan lek lek ah seng tur. - Thawnchhuah tur atan erawh chuan a rawng a eng (yellow) hma hretah seng tur a ni.
		Rat damage (Sazu in a tihchhiat) LAWNGTLAI SAIHA	- Sazu bu leh kua vel tihchhiat a, a hmun vel fai taka enkawl tur. - Sazu chaw vel a awm loh nan hnim vel tihfai that tur. - Sazu an tam viau chuan sazu tur 2% Zinc phosphide (96% buh nawi, 2% edible oil leh 2%ZnP) hman tur a ni.
Colocasia	Par a chhuah hma		A bul vel tihfai that a, a zar tangkai lo ho paih tur.



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		KOLASIB	- A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni.
		Corm borer	Thlai bul (plant base) ah rannung tui hmuh a nih chuan ram hectare khat hmunah Carbofuran 3G 1.5kg a.i hi thlai zung bulah hman tur a ni.
Cucurbitaceous crops	A seng hun	AIZAWL CHAMPAI	- A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. - Tuthlawh hmangin hnim thlawh mai tur a ni. - Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni. - A rah puitling ho chu seng nghal zel tur a ni.
		Fruit fly	Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrh Saiabe	A par hma deuh atang a par thleng	LUNGLEI	- A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni. - A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni. - Ruahtui tling a awm loh nan tui luankawr mumal siam tur a ni. - A rah puitling apiang seng zel tur a ni.
		Okra leafroller	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Behlawi	Rah a chhuah tan	LAWNGTLAI SAIHA	A bul vel tihfai that a, a zar



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	atanga seng hun thleng	KOLASIB	tangkai lo ho paih tur. - A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah baw a ni. - A rah puitling apiang seng zel tur.
Bawkbawn	Rah a chhuah tan atanga seng hun thleng	AIZAWL CHAMPAI SERCHHIP	- A bul vel tihfai that a, a zar tangkai lo ho paih tur. - Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnim to tam tur a veng. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, thlai thang a tichak baw. - Ram Hactare khata zauah leitha Urea 50kg hi hmun hnihah thenin vawihnih phul tur a ni. - A rah puitling apiang seng zel tur.
		Shoot and fruit borer (thlai kung leh a rah bawm chi rannung)	- Natna in a tihchhiat tawh thlai peng lakthlak a paih tur. - Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
		Brinjal leaf beetle	Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.
Kharif rice (Buh fur laia chin chi)	Phun sawn hunlai	LAWNGTLAL SAIHA	- Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur. - Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur.



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			Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Kharif rice	A peng insiamtur zawng zawng insiam zawh hnu lawk	KOLASIB	- A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur. - Leitha vawihnih pek tur. - Tui tling tur vennan tui hawk luanna mumal tak siam tur.
Pre Kharif Rice	A vui inseam tan lai	MAMIT	- A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur. - Leitha vawihnih pek tur. - Tui tling tur vennan tui hawk luanna mumal tak siam tur.
		Rice yellow stem borer	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Vaimim fur hma a seng chi	A seng hun	SERCHHIP	- A rah zawng zawng seng vek tur. - Keh hun zawng ni saah phoro tur. - Vaimim chi chu rapah rep tur.
Vaimim fur hma hreta seng chi	A kung puitlin hun	LUNGLEI	- A kung bul vela hnim vel tihfai that tur. - Leitha nena rihvur tur. - Leitha vawi hnih pek tur.
		Maize cob borer (vaimim kawm bawmtu rannung)	0.1% endosulfan {2ml (35EC)} hi tui litre khatah pawlh a, ni 30 hnuah vaimim hnahah kah tur.
Sawhthing leh Aieng	Par a chhuah hma	LAWNGTLAI SAIHA	- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha⁻¹, Pendimethalin (Stomp)



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			@ 1-1.5kg a.i ha ⁻¹ te hian hnimhnah lian lampang chi a veng a ni.
		Turmeric shoot borer (Aieng kung ei chhetu rannung)	✚ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Kharif pulses (Green gram, Black gram and Rajma)	Par a chhuah atanga rah a chhuah thleng		✚ A bul vela hnim leh thlaidang lo to ve te that a paih tur. ✚ A kung bulah rih vur tur. ✚ Natna kai tawh thlai te lakkhawm a halral tur.
		Aphid and bug	✚ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	• Black Quarter Vaccine (BQ) ✚ Thla ruk an tlin hunah vaccine lak tan tur. ✚ Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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District: Saiha

Period: 17 - 21 August, 2016

Bulletin No: - 628/2016/ Bulletin/English

Date of issue: 16th August, 2016

Parameters	17.08.2016	18.08.2016	19.08.2016	20.08.2016	21.08.2016
Rainfall (mm)	8	4	3	4	5
Max Temp (°C)	33	33	34	34	34
Min Temp (°C)	23	23	24	24	24
Cloud Coverage	Partially clear	Partially clear	Partially clear	Partially clear	Partially clear
Max RH (%)	99	97	97	99	97
Min RH (%)	84	68	66	66	76
Wind Speed (Kmph)	4	2	3	2	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C): 18-22 °C
Minimum Tem. (°C): 15-16 °C
Maximum RH (%): 90-98%
Minimum RH (%): 56-85%
Wind Direction: Southwesterly
Cloud cover: Mainly cloudy

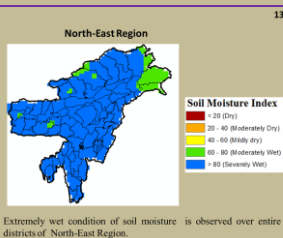
Rainfall: 64.8 mm

Weather forecast valid from 17th August, 2016 To 21st August, 2016.

There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 33-34°C and 23-24°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 66-84%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 24.0 mm

NDVI for Mizoram



Extremely wet condition occur in all district of Mizoram

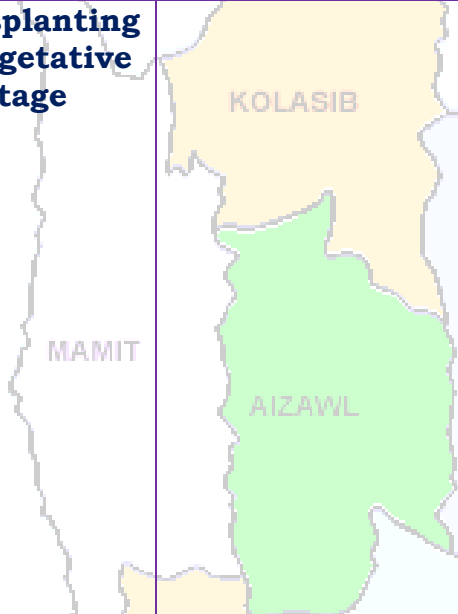


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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplanting to vegetative stage	 Citrus cancar	- In north-eastern parts of India, Khasi mandarins are very closely spaced (6 m. X 6 m.), accommodating more than 120 plants/ha. - Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water). - Before transferring seedlings the soil mixture should be treated with carbendazim @0.05% i.e (Bavistin 1.0 g/litre of water). - Urea 0.5% of seedling solution (5g/lit. water has to be sprayed at fortnight interval to increase the growth of seedling. - Care should be taken to avoid water stagnation in the bags.
		Citrus leaf minor and butterfly	- Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lit or bactericides Blitox 50 WG @ 0.01g/lit can provide a barrier against infection, but they will not treat an existing infection. - Control minor infections limited to a small area of the tree by pruning away the affected parts. - Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Dia back disease	- Remove all infected plant and burm it. - Pruning of effected part spraying with carbendazim/Bordeaux mixture 1.0%
Passion Fruit	flowering to fruiting stage		- Clean near the base of the plant. - In dry spell apply mulch with grass. - Trellises are in the north-south



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			direction to minimize the shades during early morning and late evening. ✚ Young vines are trained to grow along the wire support of the trellises. ✚ Apply 100: 50:100g as NPK per plant in dry days.
		Aphid and mite	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Banana	Flowering to fruit formation stage		✚ Clear near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
		Banana Rhizome weevil	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Pineapple	Harvest stage		✚ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✚ Fresh fruits destined for the local market are plucked when almost ripe. ✚ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
		Rat damage	✚ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation. ✚ Minimize the alternate food sources and secured habitation by removing the weeds



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			and crop residues in/ around the fields. ✦ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
Oil plam	Vegetative stage	KOLASIB MAMIT AIZAWL CHAMPAI	✦ Cleaning near base of the plant and cut unwanted branches. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt). ✦ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✦ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Colocasia	Vegetative stage	SERCHHIP LUNGLEI	✦ Remove unwanted plant near base of the plant and cut dead branches. ✦ Earthing up soil at base of the plant along with split doses of fertilizer. ✦ Proper drainage is required to avoid water logging. ✦ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	✦ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	LAWNGTLAI SAIHA	✦ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✦ Weeding can be done by hoeing as and when necessary. ✦ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✦ Harvest all mature fruit.



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		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Harvesting stage	KOLASIB	- Harvest all mature fruit. - Don't harvest all mature fruit at a time. - Keep over mature fruit for seed production. - Keep dry fruits in sun for drying and store for next year
		Okra leafroller	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Cowpea	Fruit initiation to harvest	AIZAWL	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. - Harvest all mature fruit.
Brinjal	Harvesting stage	LUNGLEI	- Harvest all mature fruit. - Don't harvest all mature fruit at a time. - Keep over mature fruit for seed production. - Extract seeds from full ripped or over matured fruit. - Keep extracted for sun dry and keep for next year.
		Shoot and fruit borer	- Collect and destroy infected parts of the plant. - Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
		Brinjal leaf beetle	Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Tomato	Nursery stage	Land preparation	- Nursery preparation for tomato. - Raised bed, nursery bed solarisation.



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			✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off KOLASIB	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	Vegetative stage	MAMIT	✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Early Cole crop	Nursery stage	Land preparation AIZAWL	✚ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Raised bed, nursery bed solarisation. ✓ Bed should be 1m width and conventional length. ✓ Application of FYM (1.5-2.0 kg/ m²) ✓ Line sowing of seeds (7-10cm)
		Damping off LUNGLEI	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed. ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✚ Application of carbofuran 3G @100g/m² in nursery is quite effective.
Pre kharif Rice	Panicle Initiation to booting stage		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging
		Rice yellow stem borer	✚ Cut leaf tip from the seedling. ✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or



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Pre kharif Maize	Harvesting stage		dimethoate 2 ml/lit of water. ✚ Harvest all the matured and immature cobs. ✚ Keep all matured cobs for sundry. ✚ Hang all matured cobs in smoke.
Kharif Maize	Tasseling to silking stage	KOLASIB	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earting up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer	✚ Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
		MAMIT Aphid and bug AIZAWL	✚ Manually collect and destroy the insect. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Saiha

Period: 17 - 21 August, 2016

Bulletin No: - 628/2016/ Bulletin/Mizo

Date of issue: 16th August, 2016

Parameters	17.08.2016	18.08.2016	19.08.2016	20.08.2016	21.08.2016
Rainfall (mm)	8	4	3	4	5
Max Temp (°C)	33	33	34	34	34
Min Temp (°C)	23	23	24	24	24
Cloud Coverage	Partially clear	Partially clear	Partially clear	Partially clear	Partially clear
Max RH (%)	99	97	97	99	97
Min RH (%)	84	68	66	66	76
Wind Speed (Kmph)	4	2	3	2	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

**Ni thum kalta sik leh sa
dinhmun tlangpui**

**17th August – 21st August, 2016 chhunga sik
leh sa dinhmun tur tlangpui**

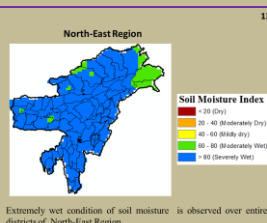
Maximum Tem. (°C):18-22 °C
Minimum Tem. (°C): 15-16 °C
Maximum RH (%):90-98%
Minimum RH (%):56-85%
Wind Direction: Southwesterly
Cloud cover: Mainly cloudy

Ni 3 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 33-34°C a ni ang a. A vawh lai berin 23-24°C ni tura beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 66-84% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam hawi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.

Rainfall: 64.8 mm

Weekly cumulative rainfall: 24.0mm

NDVI for Mizoram



Extremely wet condition occur in all district of Mizoram



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Phun sawn (transplant) hun		- Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmunah phun tur a ni. - Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni. - Kung lian deuh chi 12-25ft inkar hlat a chin tur a ni a, kung te deuh chi erawh 6-10ft inkar hlata chin tur a ni. Kung puitling a len poh leh an inkar tih hlat tur a ni. - Tui tling insah vat theih lohna hmun (ruah sur zawha tui a tlin rei thinna hmun) ah chuan ser tiak chu hmun tih pawn chawp ah phun tur a ni. - Ser tiak phun lo a, a chi a chin duh chuan ser rah duhthusam atangin a chi lak tur a ni. A chi chu zankhuain tuiah chiaah tur a ni a, A tukah Lei hnawng awmna pot (moist pot) ah ½ inch vela thukah tuh tur a ni. Pot chu plastic bag emaw, sarangin emaw tuam a, Ni zung hmuh thatna leh hmun lumah a rawn to chhuah hma chu dah tur a ni. Chumi zawhah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.
		Citrus Cancar	- Tui litre khatah Copper Oxy Chloride 50%WP hi 2g emaw Blitox 50WG 0.01g hi emaw pawlh a, chu tui chu kung hrisel ah kah hian Citrus Cancar natna a veng thei a, he natna veisa kung ah chuan hman loh tur a ni thung. - Kung tlemte chauhin he natna an



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			vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.
		Citrus leafminior and butterfly 	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
Oil Palm	A tet lai		- Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni. - Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni. - Oil palm tiak chu 2.5cm vela thuk in phum tur. - Nitin tui pek tur. - A tiak pakhat tan leitha SSP, MOP leh Mg_2SO_4 cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni. - A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni. - Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.
	Par a chhuah hma		- A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni. - Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni. - Micro-nutrients (zinc, copper, boron, manganese, iron leh molybdenum) te hi pek thin tur an ni. Pek that loh chuan huan pumpui chhiatna a thlen thei a ni.



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			Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.
Balhla	A par lai		- Balhla kung bul vel - tihfai a a hnah ro te thlak bawk tur. - Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur.
			Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
			Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.
	A hmin hun		- Balhla hi a par atanga ni 120-140 inkarah a hmin tlangpui. - A raha kil a reh hnu, a mam pal hunah seng chauh tur a ni. - Balhla bu a puitlin tawh chuan a hnah chung ber a ro tan thin.
			Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.
			A rah hunlaia polythene bag-a a kung tuam hian rannung thenkhat lakah a veng ve a ni.
Sapthei	Phunsawn hunlai		- Rah chhuah tha, virus kai lo thlan tur a ni. - Phunsawn atana kan lak hian a



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		KOLASIB	kunga chawrno (bud) 3 tal a keng tel tur a ni. - Phun sawn veleh hian maul eh polythene a siam hmun uap tak tak (chamber) 0 ah dah tur a ni. Grafting (a kung zawm): - Sapthei chhung eng (yellow) hi polythene bag ah an phun a, Rahangala hybrid kung tantawi nen an zawm thin.
	Par a chhuah hma	MAMIT AIZAWL CHAMPAI	- A bulhnai vel tihfai that tur. - Khaw ro lai chuan a zung bulah lei rihvur a, hnimhnah dah bawk tur a ni. - Zingkar leh tlai lama Ni a hmuh that theihnan Hmarthlang lam hawitir tur a ni. - A zar no ho a zamna tur siam mumal tur.
		Aphid SERCHHIP	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw, acephate 1.0g emaw dimethoate 2ml emaw, tui litre khatah pawlh a, kah tur.
Lakhuihthei	A seng hunlai	LUNGLEI	- A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni. - Local market (khawchhunga hralh nghal tur) atan chuan a hmin tan lek lek ah seng tur. - Thawnchhuah tur atan erawh chuan a rawng a eng (yellow) hma hretah seng tur a ni.
		Rat damage (Sazu in a tihchhiat) LAWNGTLAI SAIHA	- Sazu bu leh kua vel tihchhiat a, a hmun vel fai taka enkawl tur. - Sazu chaw vel a awm loh nan hnim vel tihfai that tur. - Sazu an tam viau chuan sazu tur 2% Zinc phosphide (96% buh nawi, 2% edible oil leh 2%ZnP) hman tur a ni.
Colocasia	Par a chhuah hma		A bul vel tihfai that a, a zar tangkai lo ho paih tur.



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		KOLASIB	- A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni.
		Corm borer	Thlai bul (plant base) ah rannung tui hmuh a nih chuan ram hectare khat hmunah Carbofuran 3G 1.5kg a.i hi thlai zung bulah hman tur a ni.
Cucurbitaceous crops	A seng hun	AIZAWL CHAMPAI	- A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. - Tuthlawh hmangin hnim thlawh mai tur a ni. - Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni. - A rah puitling ho chu seng nghal zel tur a ni.
		Fruit fly	Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrh Saiabe	A par hma deuh atang a par thleng	LUNGLEI	- A hnah ro vel pawthlak a, a kung bul vel tih fai bawk tur a ni. - A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni. - Ruahtui tling a awm loh nan tui luankawr mumal siam tur a ni. - A rah puitling apiang seng zel tur a ni.
		Okra leafroller	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Behlawi	Rah a chhuah tan	LAWNGTLAI SAIHA	A bul vel tihfai that a, a zar

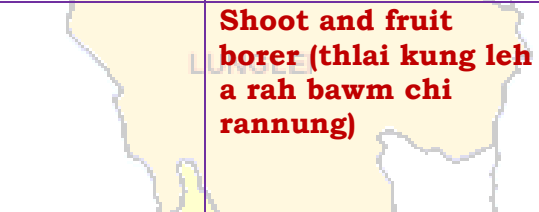


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	atanga seng hun thleng		tangkai lo ho paih tur. - A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennan tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni. - A rah puitling apiang seng zel tur.
Bawkbawn	Rah a chhuah tan atanga seng hun thleng		- A bul vel tihfai that a, a zar tangkai lo ho paih tur. - Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnim to tam tur a veng. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, thlai thang a tichak bawk. - Ram Hactare khata zauah leitha Urea 50kg hi hmun hnihah thenin vawihnih phul tur a ni. - A rah puitling apiang seng zel tur.
			Shoot and fruit borer (thlai kung leh a rah bawm chi rannung) - Natna in a tihchhiat tawh thlai peng lakthlak a paih tur. - Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
			Brinjal leaf beetle Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.
Kharif rice (Buh fur laia chin chi)	Phun sawn hunlai		- Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur. - Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur.



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			Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Kharif rice	A peng insiamtur zawng zawng insiam zawh hnu lawk	KOLASIB	- A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur. - Leitha vawihnih pek tur. - Tui tling tur vennan tui hawk luanna mumal tak siam tur.
Pre Kharif Rice	A vui inseam tan lai	MAMIT	- A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur. - Leitha vawihnih pek tur. - Tui tling tur vennan tui hawk luanna mumal tak siam tur.
		Rice yellow stem borer	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Vaimim fur hma a seng chi	A seng hun	SERCHHIP	- A rah zawng zawng seng vek tur. - Keh hun zawng ni saah phoro tur. - Vaimim chi chu rapah rep tur.
Vaimim fur hma hreta seng chi	A kung puitlin hun	LUNGLEI	- A kung bul vela hnim vel tihfai that tur. - Leitha nena rihvur tur. - Leitha vawi hnih pek tur.
		Maize cob borer (vaimim kawm bawmtu rannung)	0.1% endosulfan {2ml (35EC)} hi tui litre khatah pawlh a, ni 30 hnuah vaimim hnahah kah tur.
Sawhthing leh Aieng	Par a chhuah hma	LAWNGTLAI SAIHA	- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha⁻¹, Pendimethalin (Stomp)



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)



			@ 1-1.5kg a.i ha ⁻¹ te hian hnimhnah lian lampang chi a veng a ni.
		Turmeric shoot borer (Aieng kung ei chhetu rannung)	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Kharif pulses (Green gram, Black gram and Rajma)	Par a chhuah atanga rah a chhuah thleng		- A bul vela hnim leh thlaidang lo to ve te that a paih tur. - A kung bulah rih vur tur. - Natna kai tawh thlai te lakkhawm a halral tur.
		Aphid and bug	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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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: Serchhip

Period: 17 - 21 August, 2016

Bulletin No: - 628/2016/ Bulletin/English

Date of issue: 16th August, 2016

Parameters	17.08.2016	18.08.2016	19.08.2016	20.08.2016	21.08.2016
Rainfall (mm)	12	8	3	5	7
Max Temp (°C)	33	33	34	33	35
Min Temp (°C)	24	24	24	25	25
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	100	99	100	99
Min RH (%)	80	69	84	56	62
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	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- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):26-28 °C
Minimum Tem. (°C): 22-23°C
Maximum RH (%):95-98%
Minimum RH (%):54-72%
Wind Direction: Southwesterly
Cloud cover: Mainly cloudy

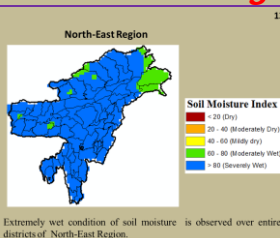
Rainfall: 26.5 mm

Weather forecast valid from 17th August, 2016 To 21st August, 2016.

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 33-35°C and 24-25°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 56-84%. Wind direction would be easterly to southerly with the wind speed of 2 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 35.0 mm

NDVI for Mizoram



Extremely wet condition of soil moisture is observed over entire districts of North-East Region.

Extremely wet condition occur in all district of Mizoram



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplanting to vegetative stage	Citrus cancar	- In north-eastern parts of India, Khasi mandarins are very closely spaced (6 m. X 6 m.), accommodating more than 120 plants/ha. - Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water). - Before transferring seedlings the soil mixture should be treated with carbendazim @0.05% i.e (Bavistin 1.0 g/litre of water). - Urea 0.5% of seedling solution (5g/lit. water has to be sprayed at fortnight interval to increase the growth of seedling. - Care should be taken to avoid water stagnation in the bags.
		Citrus leaf minor and butterfly	- Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lit or bactericides Blitox 50 WG @ 0.01g/lit can provide a barrier against infection, but they will not treat an existing infection. - Control minor infections limited to a small area of the tree by pruning away the affected parts. - Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Dia back disease	- Remove all infected plant and burm it. - Pruning of effected part spraying with carbendazim/Bordeaux mixture 1.0%
Passion Fruit	Vegetative to flowering stage		- Clean near the base of the plant. - In dry spell apply mulch with grass. - Trellises are in the north-south



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			direction to minimize the shades during early morning and late evening. - Young vines are trained to grow along the wire support of the trellises. - Apply 100: 50:100g as NPK per plant in dry days.
		Banana Rhizome weevil	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	Flowering to fruit formation stage		- Clear near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
		Aphid and mite	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	Harvest stage		- A basal golden yellow coloration at the base is the sign of a ripe fruit. - Fresh fruits destined for the local market are plucked when almost ripe. - Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
		Rat damage	- Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation. - Minimize the alternate food sources and secured habitation by removing the weeds



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			and crop residues in/ around the fields. ✦ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
Oil plam	Vegetative stage	KOLASIB MAMIT AIZAWL CHAMPAI	✦ Cleaning near base of the plant and cut unwanted branches. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt). ✦ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✦ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Colocasia	Vegetative stage	SERCHHIP LUNGLEI	✦ Remove unwanted plant near base of the plant and cut dead branches. ✦ Earthing up soil at base of the plant along with split doses of fertilizer. ✦ Proper drainage is required to avoid water logging. ✦ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	✦ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	Harvesting stage	LAWNGTLAI SAIHA	✦ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✦ Weeding can be done by hoeing as and when necessary. ✦ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✦ Harvest all mature fruit.



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		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Harvesting stage	KOLASIB	- Harvest all mature fruit. - Keep over mature fruit for seed production. - Keep dry fruits in sun for drying and store for next year
		Okra leafroller	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Cowpea	Fruit initiation to harvest	AIZAWL	- Remove unwanted plant near base of the plant and cut dead branches. - Earthing up soil at base of the plant along with split doses of fertilizer. - Proper drainage is required to avoid water logging. - Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	Harvesting stage	LUNGLEI	- Harvest all mature fruit. - Keep over mature fruit for seed production. - Extract seeds from full ripped or over matured fruit. - Keep extracted for sun dry and keep for next year.
		Shoot and fruit borer	- Collect and destroy infected parts of the plant. - Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
		Brinjal leaf beetle	Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lit of water.
Ginger and turmeric	Vegetative stage	LAWNGTLAI	- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of



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		KOLASIB	1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pre kharif Rice	Panicle Initiation to booting stage	AIZAWL	✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging
		Rice yellow stem borer	✚ Cut leaf tip from the seedling. ✚ Collect and destroy infected parts of the plant. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pre kharif Maize	Harvesting stage	SERCHHIP	✚ Harvest all the matured and immature cobs. ✚ Keep all matured cobs for sundry. ✚ Hang all matured cobs in smoke.
Kharif Maize	Tasseling to silking stage	LUNGLEI	✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earting up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer	✚ Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Kharif pulses (Green gram, Black gram and Rajma)	Flowering to pod formation stage	LAWNGTLAI	✚ Remove unwanted plant from terrace and riser. ✚ Remove all infected pant and burn it.
		Aphid and bug	✚ Manually collect and destroy the insect. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0



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			g or dimethoate 2 ml/lit of water.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Serchhip

Period: 17 - 21 August, 2016

Bulletin No: - 628/2016/ Bulletin/Mizo

Date of issue: 16th August, 2016

Parameters	17.08.2016	18.08.2016	19.08.2016	20.08.2016	21.08.2016
Rainfall (mm)	12	8	3	5	7
Max Temp (°C)	33	33	34	33	35
Min Temp (°C)	24	24	24	25	25
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	100	99	100	99
Min RH (%)	80	69	84	56	62
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	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- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

Ni thum kalta sik leh sa dinhmun tlangpui

17th August – 21st August, 2016 chhunga sik leh sa dinhmun tur tlangpui

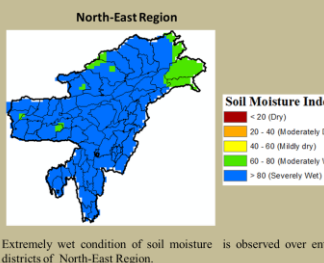
Maximum Tem. (°C):26-28 °C
Minimum Tem. (°C): 22-23°C
Maximum RH (%):95-98%
Minimum RH (%):54-72%
Wind Direction: Southwesterly
Cloud cover: Mainly cloudy

Ni 3 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 33-35°C a ni ang a. A vawh lai berin 24-25°C ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 56-84% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam hawi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.

Rainfall: 26.5 mm

Weekly cumulative rainfall: 35.0mm

NDVI for Mizoram



Extremely wet condition occur in all district of Mizoram



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Phun sawn (transplant) hun		- Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmunah phun tur a ni. - Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni. - Kung lian deuh chi 12-25ft inkar hlat a chin tur a ni a, kung te deuh chi erawh 6-10ft inkar hlata chin tur a ni. Kung puitling a len poh leh an inkar tih hlat tur a ni. - Tui tling insah vat theih lohna hmun (ruah sur zawha tui a tlin rei thinna hmun) ah chuan ser tiak chu hmun tih pawn chawp ah phun tur a ni. - Ser tiak phun lo a, a chi a chin duh chuan ser rah duhthusam atangin a chi lak tur a ni. A chi chu zankhuain tuiah chiaah tur a ni a, A tukah Lei hnawng awmna pot (moist pot) ah ½ inch vela thukah tuh tur a ni. Pot chu plastic bag emaw, sarangin emaw tuam a, Ni zung hmuh thatna leh hmun lumah a rawn to chhuah hma chu dah tur a ni. Chumi zawhah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.
		Citrus Cancar	- Tui litre khatah Copper Oxy Chloride 50%WP hi 2g emaw Blitox 50WG 0.01g hi emaw pawlh a, chu tui chu kung hrisel ah kah hian Citrus Cancar natna a veng thei a, he natna veisa kung ah chuan hman loh tur a ni thung. - Kung tlemte chauhin he natna an



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			vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.
		Citrus leafminior and butterfly 	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
Oil Palm	A tet lai		- Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni. - Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzatz theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni. - Oil palm tiak chu 2.5cm vela thuk in phum tur. - Nitin tui pek tur. - A tiak pakhat tan leitha SSP, MOP leh Mg_2SO_4 cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni. - A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni. - Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.
	Par a chhuah hma		- A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni. - Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni. - Micro-nutrients (zinc, copper, boron, manganese, iron leh molybdenum) te hi pek thin tur an ni. Pek that loh chuan huan pumpui chhiatna a thlen thei a ni.



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			Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.
Balhla	A par lai		- Balhla kung bul vel - tihfai a a hnah ro te thlak bawk tur. - Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur.
		Banana Rhizome weevil	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
		Banana panama wilt	Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.
	A hmin hun		- Balhla hi a par atanga ni 120-140 inkarah a hmin tlangpui. - A raha kil a reh hnu, a mam pal hunah seng chauh tur a ni. - Balhla bu a puitlin tawh chuan a hnah chung ber a ro tan thin.
		Banana fruit caterpillar	Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.
		Banana thrips	A rah hunlaia polythene bag-a a kung tuam hian rannung thenkhat lakah a veng ve a ni.
Sapthei	Phunsawn hunlai		- Rah chhuah tha, virus kai lo thlan tur a ni. - Phunsawn atana kan lak hian a



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		KOLASIB	kunga chawrno (bud) 3 tal a keng tel tur a ni. - Phun sawn veleh hian maul eh polythene a siam hmun uap tak tak (chamber) 0 ah dah tur a ni. Grafting (a kung zawm): - Sapthei chhung eng (yellow) hi polythene bag ah an phun a, Rahangala hybrid kung tantawi nen an zawm thin.
	Par a chhuah hma	MAMIT AIZAWL CHAMPAI	- A bulhnai vel tihfai that tur. - Khaw ro lai chuan a zung bulah lei rihvur a, hnimhnah dah bawk tur a ni. - Zingkar leh tlai lama Ni a hmuh that theihnan Hmarthlang lam hawitir tur a ni. - A zar no ho a zamna tur siam mumal tur.
		Aphid SERCHHIP	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw, acephate 1.0g emaw dimethoate 2ml emaw, tui litre khatah pawlh a, kah tur.
Lakhuihthei	A seng hunlai	LUNGLEI	- A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni. - Local market (khawchhunga hralh nghal tur) atan chuan a hmin tan lek lek ah seng tur. - Thawnchhuah tur atan erawh chuan a rawng a eng (yellow) hma hretah seng tur a ni.
		Rat damage (Sazu in a tihchhiat) LAWNGTLAI SAIHA	- Sazu bu leh kua vel tihchhiat a, a hmun vel fai taka enkawl tur. - Sazu chaw vel a awm loh nan hnim vel tihfai that tur. - Sazu an tam viau chuan sazu tur 2% Zinc phosphide (96% buh nawi, 2% edible oil leh 2%ZnP) hman tur a ni.
Colocasia	Par a chhuah hma		A bul vel tihfai that a, a zar tangkai lo ho paih tur.



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		KOLASIB	- A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennisan tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni.
		Corm borer	Thlai bul (plant base) ah rannung tui hmuh a nih chuan ram hectare khat hmunah Carbofuran 3G 1.5kg a.i hi thlai zung bulah hman tur a ni.
Cucurbitaceous crops	A seng hun	AIZAWL CHAMPAI	- A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. - Tuthlawh hmangin hnim thlawh mai tur a ni. - Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni. - A rah puitling ho chu seng nghal zel tur a ni.
		Fruit fly	Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrh Saiabe	A par hma deuh atang a par thleng	LUNGLEI	- A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni. - A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni. - Ruahtui tling a awm loh nan tui luankawr mumal siam tur a ni. - A rah puitling apiang seng zel tur a ni.
		Okra leafroller	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Behlawi	Rah a chhuah tan	LAWNGTLAI SAIHA	A bul vel tihfai that a, a zar

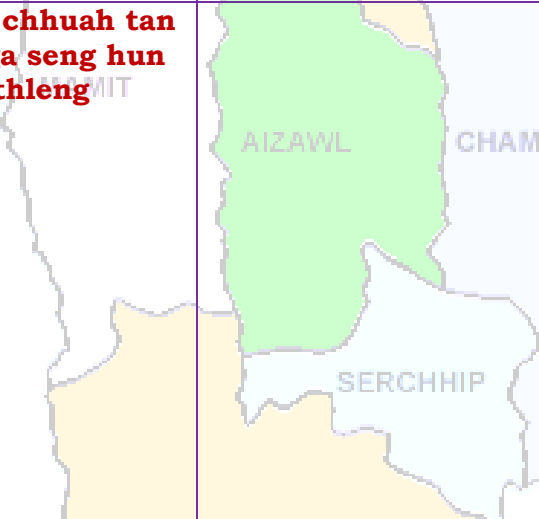
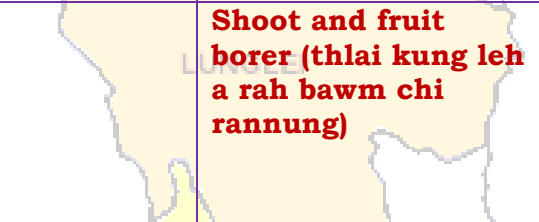
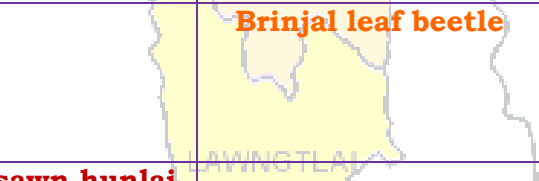


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	atanga seng hun thleng		tangkai lo ho paih tur. - A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah baw a ni. - A rah puitling apiang seng zel tur.
Bawkbawn	Rah a chhuah tan atanga seng hun thleng		- A bul vel tihfai that a, a zar tangkai lo ho paih tur. - Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnim to tam tur a veng. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, thlai thang a tichak baw. - Ram Hactare khata zauah leitha Urea 50kg hi hmun hnihah thenin vawihnih phul tur a ni. - A rah puitling apiang seng zel tur.
			- Natna in a tihchhiat tawh thlai peng lakthlak a paih tur. - Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
			Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.
Kharif rice (Buh fur laia chin chi)	Phun sawn hunlai		- Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur. - Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur.



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			Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Kharif rice	A peng insiamtur zawng zawng insiam zawh hnu lawk	KOLASIB	- A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur. - Leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luanna mumal tak siam tur.
Pre Kharif Rice	A vui inseam tan lai	MAMIT	- A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur. - Leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luanna mumal tak siam tur.
		Rice yellow stem borer	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Vaimim fur hma a seng chi	A seng hun	SERCHHIP	- A rah zawng zawng seng vek tur. - Keh hun zawng ni saah phoro tur. - Vaimim chi chu rapah rep tur.
Vaimim fur hma hreta seng chi	A kung puitlin hun	LUNGLEI	- A kung bul vela hnim vel tihfai that tur. - Leitha nena rihvur tur. - Leitha vawi hnih pek tur.
		Maize cob borer (vaimim kawm bawmtu rannung)	0.1% endosulfan {2ml (35EC)} hi tui litre khatah pawlh a, ni 30 hnuah vaimim hnahah kah tur.
Sawhthing leh Aieng	Par a chhuah hma	LAWNGTLAI SAIHA	- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha⁻¹, Pendimethalin (Stomp)



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			@ 1-1.5kg a.i ha ⁻¹ te hian hnimhnah lian lampang chi a veng a ni.
		Turmeric shoot borer (Aieng kung ei chhetu rannung)	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Kharif pulses (Green gram, Black gram and Rajma)	Par a chhuah atanga rah a chhuah thleng		- A bul vela hnim leh thlaidang lo to ve te that a paih tur. - A kung bulah rih vur tur. - Natna kai tawh thlai te lakkhawm a halral tur.
		Aphid and bug	Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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