



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



District: Kolasib

Period: 15 October – 19 October, 2016

Bulletin No: - 645/2016/ Bulletin/English

Date of issue: 14th October, 2016

Parameters	15.10.2016	16.10.2016	17.10.2016	18.10.2016	19.10.2016
Rainfall (mm)	3	2	0	0	0
Max Temp (°C)	30	30	31	31	32
Min Temp (°C)	20	20	21	21	21
Cloud Coverage	Mainly clear	Partially clear	Clear Sky	Clear Sky	Clear Sky
Max RH (%)	99	98	97	97	96
Min RH (%)	66	48	46	43	53
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	N-E	N-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):26-27°C
Minimum Tem. (°C):21-23°C
Maximum RH (%):94-98%
Minimum RH (%):81-94%
Wind Direction: Easterly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

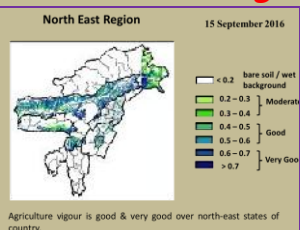
Rainfall: 54.4 mm

Weather forecast valid from 15th October, 2016 To 19th October, 2016.

There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 30-32°C and 20-21°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 43-66%. Wind direction would be northeasterly to easterly with the wind speed of 2 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 05.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

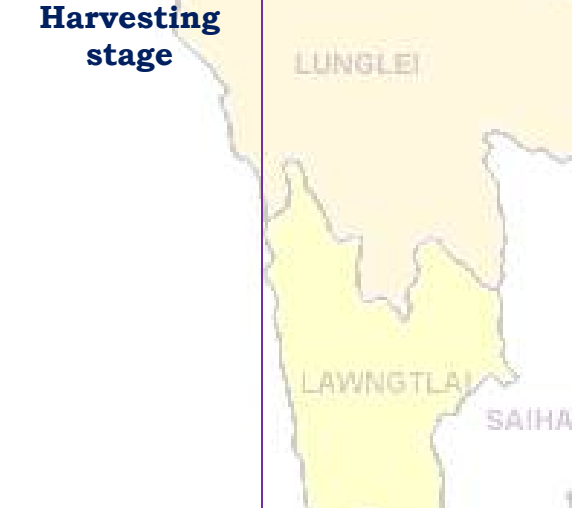


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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Harvesting stage		- Orange is picked when colour turn to dark green to pale yellow. - Mandarins and sweet oranges normally take 240-280 days to arrive at maturity. - Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days. - Limes and lemons take 150-160 days for maturity. - There may be 2 or 3 crops in a year in limes and lemons. - The cold storage conditions for long term storage for different citrus fruits are available. - Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.
		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.
Passion Fruit	Harvesting stage		- The vines start yielding fruits after 10 months of planting and bearing reaches optimum by 16-18 months. - There are two main periods of fruiting from August to December and March to May. - Fruits take 80-85 days to reach maturity. - Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up. - The fruits should be marketed quickly to prevent loss in weight and their appearance. - The rind becomes wrinkled on drying



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			but the pulp remains in good condition for several days.
		Fruit fly	- Collect and burn all infected plant. - In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Banana	Harvesting stage		- Change of colour from green to yellowish. - Fingers are about three quarters full i.e. 3/4 of fruit is rounded - Ridges should still be prominent on the remaining quarter of the finger. - Harvest bananas when they are swollen and green but before they become ripe (plump and yellow). - Too early (when the bananas are thin and dark green). - Too late (when they are thick and turning yellow).
		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 beetle	- Removal of weeds from basin - Removal of unwanted sucker - Application of alphamethrin @ 0.01%.
Oil plam	Fruiting stage		Ablation: - Ablation is the removal of male and female flowers produced in the early stages of plantation. - This enables the plant to gain adequate stem girth, vigour and develop adequate root system. Flowering starts from 14th to 18th month after planting. - Start ablation immediately after the



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			appearance of inflorescences on the palms. - They can be removed easily by hand pulling or using the tool developed at DOPR. - Ablation can be extended up to 2-1/2 to 3 years depending upon the plant growth and vigour. Pollination: - Wind and insects assist pollination, but wind pollination is not adequate. - Effective pollinating insects like <i>Elaeidobius kamerunicus</i> helps in good pollination and fruit set. - Release of this weevil after 2-1/2 year of planting is advisable. - If the plants are not having good girth and vigour, release the weevils after 3 years.
Colocasia	Vegetative stage		- 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.
Brinjal	Harvesting stage		- 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



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Tomato	Nursery stage	Land preparation	dimethoate 2 ml/lit of water. - 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)
		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/lit of water.
Kharif Rice	Grain filling 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 dimethoate 2 ml/lit of water.
		Rice leafroller	- Stop indiscriminate use of fertilizer. - Use any systemic insecticide like Monocrotophos 1 ml/lit of water for light damage and 2 ml/lit of water for heavy



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Soybean	Vegetative stage	Zero tillage	damage. ✚ Clear base of the plant. ✚ Earthing up soil near to plant for better support.
Green gram, black gram and French bean (After Pre kharif rice harvest)	Vegetative stage	Stem girdler Zero tillage	✚ Clear base of the plant. ✚ Earthing up soil near to plant for better support. ✚ For French bean use bamboo for staking or support. ✚ Use split dose of fertilizer for better fruiting for French bean.
Pig	All stages	Pig disease	✚ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian doctor.
		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	Litter management		✚ Maintain light 12-14 hrs in brooder house. ✚ The litter should be 7.5- 10 cm deep. ✚ Saw dust, paddy husk or ground nut hulls can be used as litter. ✚ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult



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			birds.
			✚ B complex with antibodies
		4 th weeks	✚ Coccidiosis - Amprolium or coccidiostat
		4-5 th Weeks	✚ Calcium tonic fortified with B ₁₂
	Bacillary White Diarrhoea	All age KOLASIB	✚ Burn all the dead birds. ✚ Furaltadone@ 0.5 g/litre of water for 7 days.





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Max RH (%)	99	98	97	97	96
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Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	N-E	N-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

15th October– 19th October, 2016 chhunga sik leh sa dinhmun tur tlangpui

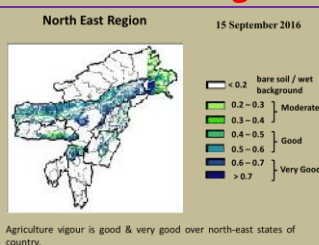
Maximum Tem. (°C):26-27°C
Minimum Tem. (°C):21-23°C
Maximum RH (%):94-98%
Minimum RH (%):81-94%
Wind Direction: Easterly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

Rainfall: 54.4 mm

Ni 2 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 30-32°C a ni ang a. A vawh lai ber in 20-21°C ni tura beisei a ni. RH san lai berin 96-99% leh a hniam lai berin 43-66% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin thlang lam leh chhak lam hawi zawngin a tleh rin a ni. Ni nga chung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.

Weekly cumulative rainfall: 05.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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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 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	MIZAWL CHANPAI	- 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 doka 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 vawih 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

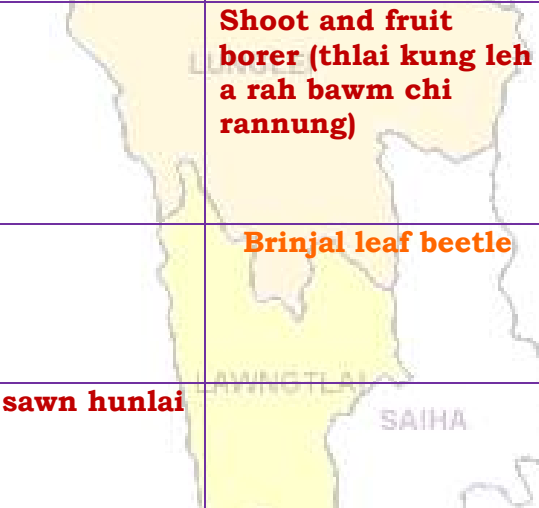


GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	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: Lawngtlai

Period: 15 October – 19 October, 2016

Bulletin No: - 645/2016/ Bulletin/English

Date of issue: 14th October, 2016

Parameters	15.10.2016	16.10.2016	17.10.2016	18.10.2016	19.10.2016
Rainfall (mm)	0	0	0	0	4
Max Temp (°C)	31	32	32	31	31
Min Temp (°C)	22	22	22	22	20
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	98	97	97	97
Min RH (%)	56	56	62	56	72
Wind Speed (Kmph)	2	2	4	2	2
*Wind Direction	N-E	N-E	E	E	N-E

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

STATUS OF MONSOON- 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): 17-19°C
Maximum RH (%):92-99%
Minimum RH (%):71-91%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

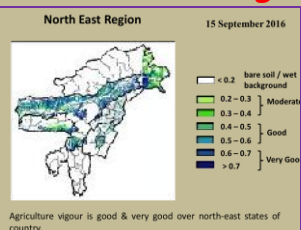
Rainfall: 25.0 mm

Weather forecast valid from 15th October, 2016 To 19th October, 2016.

There is chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 31-32°C and 20-22°C. Maximum relative humidity is expected in the range of 97-98% and minimum may from 56-72%. Wind direction would be northeasterly to easterly and northeasterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 04.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Harvesting stage		- Orange is picked when colour turn to dark green to pale yellow. - Mandarins and sweet oranges normally take 240-280 days to arrive at maturity. - Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days. - Limes and lemons take 150-160 days for maturity. - There may be 2 or 3 crops in a year in limes and lemons. - The cold storage conditions for long term storage for different citrus fruits are available. - Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.
		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.
Passion Fruit	Harvesting stage		- The vines start yielding fruits after 10 months of planting and bearing reaches optimum by 16-18 months. - There are two main periods of fruiting from August to December and March to May. - Fruits take 80-85 days to reach maturity. - Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up. - The fruits should be marketed quickly to prevent loss in weight and their appearance. - The rind becomes wrinkled on drying



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			but the pulp remains in good condition for several days.
		Fruit fly	- Collect and burn all infected plant. - In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Banana	Harvesting stage		- Change of colour from green to yellowish. - Fingers are about three quarters full i.e. 3/4 of fruit is rounded - Ridges should still be prominent on the remaining quarter of the finger. - Harvest bananas when they are swollen and green but before they become ripe (plump and yellow). - Too early (when the bananas are thin and dark green). - Too late (when they are thick and turning yellow).
		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 beetle	- Removal of weeds from basin - Removal of unwanted sucker - Application of alphamethrin @ 0.01%.
Oil plam	Fruiting stage		Ablation: - Ablation is the removal of male and female flowers produced in the early stages of plantation. - This enables the plant to gain adequate stem girth, vigour and develop adequate root system. Flowering starts from 14th to 18th month after planting. - Start ablation immediately after the



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			appearance of inflorescences on the palms. - They can be removed easily by hand pulling or using the tool developed at DOPR. - Ablation can be extended up to 2-1/2 to 3 years depending upon the plant growth and vigour. Pollination: - Wind and insects assist pollination, but wind pollination is not adequate. - Effective pollinating insects like <i>Elaeidobius kamerunicus</i> helps in good pollination and fruit set. - Release of this weevil after 2-1/2 year of planting is advisable. - If the plants are not having good girth and vigour, release the weevils after 3 years.
Colocasia	Vegetative stage		- 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.
Brinjal	Harvesting stage		- 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



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Tomato	Nursery stage	Land preparation	dimethoate 2 ml/lit of water. - 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)
		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/lit of water.
Kharif Rice	Grain filling 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 dimethoate 2 ml/lit of water.
		Rice leafroller	- Stop indiscriminate use of fertilizer. - Use any systemic insecticide like Monocrotophos 1 ml/lit of water for light damage and 2 ml/lit of water for heavy



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Soybean	Vegetative stage	Zero tillage	damage. ✚ Clear base of the plant. ✚ Earthing up soil near to plant for better support.
Green gram, black gram and French bean (After Pre kharif rice harvest)	Vegetative stage	Zero tillage	✚ Clear base of the plant. ✚ Earthing up soil near to plant for better support. ✚ For French bean use bamboo for staking or support. ✚ Use split dose of fertilizer for better fruiting for French bean.
Pig	All stages	Pig disease	✚ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian doctor.
		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	Litter management		✚ Maintain light 12-14 hrs in brooder house. ✚ The litter should be 7.5- 10 cm deep. ✚ Saw dust, paddy husk or ground nut hulls can be used as litter. ✚ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.



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			✚ B complex with antibodies
		4 th weeks	✚ Coccidiosis - Amprolium or coccidiostat
		4-5 th Weeks	✚ Calcium tonic fortified with B ₁₂
	Bacillary White Diarrhoea	All age	✚ Burn all the dead birds. ✚ Furaltadone@ 0.5 g/litre of water for 7 days.





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District: Lawngtlai

Period: 15 October – 19 October, 2016

Bulletin No: - 645/2016/ Bulletin/Mizo

Date of issue: 14th October, 2016

Parameters	15.10.2016	16.10.2016	17.10.2016	18.10.2016	19.10.2016
Rainfall (mm)	0	0	0	0	4
Max Temp (°C)	31	32	32	31	31
Min Temp (°C)	22	22	22	22	20
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	98	97	97	97
Min RH (%)	56	56	62	56	72
Wind Speed (Kmph)	2	2	4	2	2
*Wind Direction	N-E	N-E	E	E	N-E

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

STATUS OF MONSOON- 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

15th October– 19th October, 2016 chhunga sik leh sa dinhmun tur tlangpui

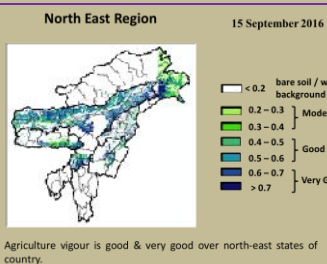
Maximum Tem. (°C):26-28°C
Minimum Tem. (°C): 17-19°C
Maximum RH (%):92-99%
Minimum RH (%):71-91%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 31-32°C a ni ang a. A vawh lai berin 20-22°C ni tura beisei a ni. RH san lai berin 97-98% leh a hniam lai berin 56-72% 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: 25.0 mm

Weekly cumulative rainfall: 04.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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 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.



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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	MIZAWL CHANPAI	- 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.
Bawrhaisaiabe	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

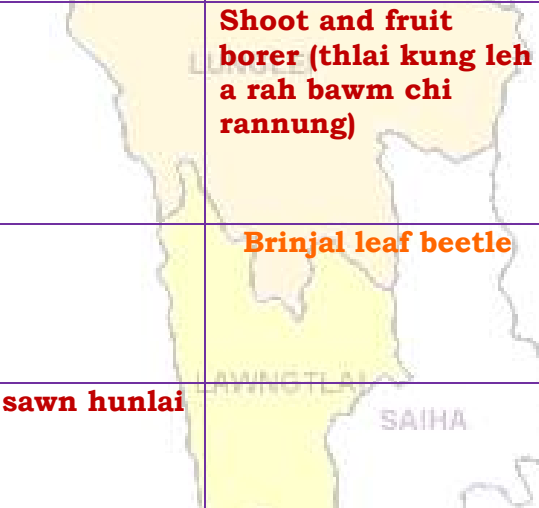


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	atanga seng hun thleng		tangkai lo ho paih tur. - A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk 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 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: Lunglei

Period: 15 October – 19 October, 2016

Bulletin No: - 645/2016/ Bulletin/English

Date of issue: 14th October, 2016

Parameters	15.10.2016	16.10.2016	17.10.2016	18.10.2016	19.10.2016
Rainfall (mm)	0	0	0	4	4
Max Temp (°C)	31	31	32	30	30
Min Temp (°C)	22	22	22	21	21
Cloud Coverage	Mainly clear	Mainly clear	Mainly clear	Mainly clear	Mainly clear
Max RH (%)	100	99	98	99	100
Min RH (%)	50	48	50	46	64
Wind Speed (Kmph)	2	2	4	2	2
*Wind Direction	N-E	S-E	S-E	N-E	N-E

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

STATUS OF MONSOON- 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): 23-24°C
Minimum Tem. (°C): 13-16°C
Maximum RH (%):93-100%
Minimum RH (%):82-93%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind Speed: 2km/hr

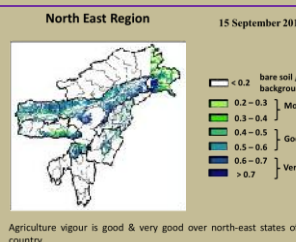
Rainfall: 31.8 mm

Weather forecast valid from 15th October, 2016 To 19th October, 2016.

There is chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 30-32°C and 21-22°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 46-64%. Wind direction would be northeasterly to southeasterly to northeasterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 08.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Harvesting stage		- Orange is picked when colour turn to dark green to pale yellow. - Mandarins and sweet oranges normally take 240-280 days to arrive at maturity. - Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days. - Limes and lemons take 150-160 days for maturity. - There may be 2 or 3 crops in a year in limes and lemons. - The cold storage conditions for long term storage for different citrus fruits are available. - Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.
		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.
Passion Fruit	Harvesting stage		- The vines start yielding fruits after 10 months of planting and bearing reaches optimum by 16-18 months. - There are two main periods of fruiting from August to December and March to May. - Fruits take 80-85 days to reach maturity. - Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up. - The fruits should be marketed quickly to prevent loss in weight and their appearance. - The rind becomes wrinkled on drying



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			but the pulp remains in good condition for several days.
		Fruit fly	- Collect and burn all infected plant. - In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Banana	Harvesting stage		- Change of colour from green to yellowish. - Fingers are about three quarters full i.e. 3/4 of fruit is rounded - Ridges should still be prominent on the remaining quarter of the finger. - Harvest bananas when they are swollen and green but before they become ripe (plump and yellow). - Too early (when the bananas are thin and dark green). - Too late (when they are thick and turning yellow).
		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 beetle	- Removal of weeds from basin - Removal of unwanted sucker - Application of alphamethrin @ 0.01%.
Oil plam	Fruiting stage		Ablation: - Ablation is the removal of male and female flowers produced in the early stages of plantation. - This enables the plant to gain adequate stem girth, vigour and develop adequate root system. Flowering starts from 14th to 18th month after planting. - Start ablation immediately after the



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			appearance of inflorescences on the palms. - They can be removed easily by hand pulling or using the tool developed at DOPR. - Ablation can be extended up to 2-1/2 to 3 years depending upon the plant growth and vigour. Pollination: - Wind and insects assist pollination, but wind pollination is not adequate. - Effective pollinating insects like <i>Elaeidobius kamerunicus</i> helps in good pollination and fruit set. - Release of this weevil after 2-1/2 year of planting is advisable. - If the plants are not having good girth and vigour, release the weevils after 3 years.
Colocasia	Vegetative stage		- 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.
Baibing (Local Vegetable)	Harvesting stage		- Weed free near base of the plant. - Harvest all mature fruits. - Keep seeds for next year.
Okra	Harvesting stage		- 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



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Brinjal	Harvesting stage		dimethoate 2 ml/lit of water. - 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.
Tomato	Vegetative stage		- Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. - Earthing up should also be done after 30 and 45 days of planting. - Staking is very important to support the plants to get more yields and quality should be done after one month of planting. - Mulching with black polythene film reduces weed growth, increase crop growth, early bearing and total yield.
		Bacterial wilt	- Uproot all infected plant and burn it. - This disease can be minimized by practicing crop rotation. - Soil dranching with Bordeaux mixture (1:1:100) after one month of planting is effective method to manage this disease.
Early Cole crop	Vegetative stage		- Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. - To produce compact head, the plant should be earthing up 4-5 weeks after transplanting. - Water should be applied at every



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			- week interval. - Heavy irrigation is avoided at the time of maturity of head to avoid cracking.
		N deficiency KOLASIB	- Deficiency is managed with the application of neem cake @0.4kg/m². - Apply 2% urea solution when this symptom will occur.
		P deficiency	- Deficiency is managed with the application of phosphorus based fertilizer @ 0.4kg/m². - Apply 4% DAP solution when this symptom will occur.
Capsicum	Nursery stage	Poly house MAMIT AIZAWL	- 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)
			- 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.
Onion	Nursery stage	Poly house SERCHHIP	- 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)
		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.
French bean	Sowing stage	LAWNGTLAI SAIHA	- Variable, healthy, well mature and pure seeds should be sown. - Optimum spacing for pole type 60 cm X 30 cm. - Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Ginger and	Vegetative		Remove unwanted plant near base of

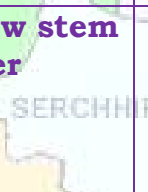


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turmeric	stage		the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, 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
Kharif Rice	Panicle emergence to grain filling stage		- Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water. - Remove unwanted plant by hand weeding. - Apply split dose of fertilizer. - Proper drainage is required to avoid water logging
			Rice yellow stem borer
			Rice leafroller
Kharif Maize	Harvesting stage		- Harvest all mature cobs. - Keep all mature cobs for sun dry. - After sundry hang all cobs in smoke for reduce maize weevil attack.
			Rat damage



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			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.
Pig	All stages	Pig disease KOLASIB	✚ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian doctor.
		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	Litter management	LUNGLEI	✚ Maintain light 12-14 hrs in brooder house. ✚ The litter should be 7.5- 10 cm deep. ✚ Saw dust, paddy husk or ground nut hulls can be used as litter. ✚ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B ₁₂
	Bacillary White Diarrhoea	All stage	✚ Burn all the dead birds. ✚ Furaldone@ 0.5 g/litre of water for 7 days.



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District: Lunglei

Period: 15 October – 19 October, 2016

Bulletin No: - 645/2016/ Bulletin/Mizo

Date of issue: 14th October, 2016

Parameters	15.10.2016	16.10.2016	17.10.2016	18.10.2016	19.10.2016
Rainfall (mm)	0	0	0	4	4
Max Temp (°C)	31	31	32	30	30
Min Temp (°C)	22	22	22	21	21
Cloud Coverage	Mainly clear	Mainly clear	Mainly clear	Mainly clear	Mainly clear
Max RH (%)	100	99	98	99	100
Min RH (%)	50	48	50	46	64
Wind Speed (Kmph)	2	2	4	2	2
*Wind Direction	N-E	S-E	S-E	N-E	N-E

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

STATUS OF MONSOON- 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

15th October– 19th October, 2016 chhunga sik leh sa dinhmun tur tlangpui

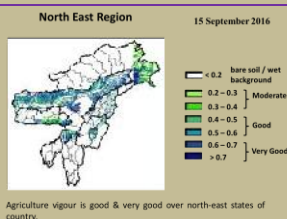
Maximum Tem. (°C): 23-24°C
Minimum Tem. (°C): 13-16°C
Maximum RH (%):93-100%
Minimum RH (%):82-93%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind Speed: 2km/hr

Ni 1 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 30-32°C a ni ang a. A vawh lai berin 21-22°C ni tura beisei a ni. RH san lai berin of 98-100% leh a hniam lai berin 46-64% 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: 31.8 mm

Weekly cumulative rainfall: 08.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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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 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	MIZAWL CHANPAI	- 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

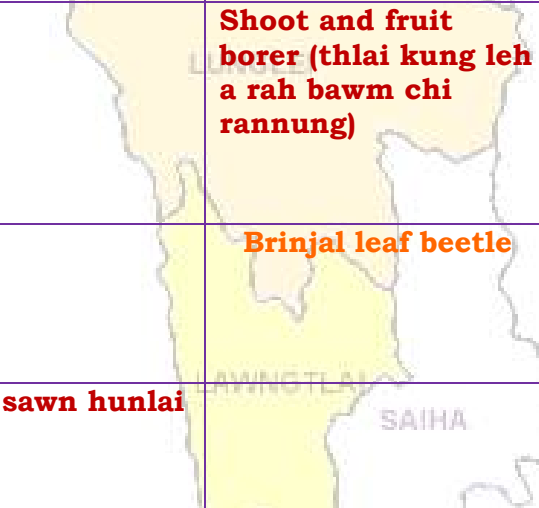


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	atanga seng hun thleng		tangkai lo ho paih tur. - A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk 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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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Mamit

Period: 15 October – 19 October, 2016

Bulletin No: - 645/2016/ Bulletin/English

Date of issue: 14th October, 2016

Parameters	15.10.2016	16.10.2016	17.10.2016	18.10.2016	19.10.2016
Rainfall (mm)	3	2	0	0	0
Max Temp (°C)	30	30	31	31	32
Min Temp (°C)	21	21	21	22	22
Cloud Coverage	Partially clear	Mainly clear	Clear sky	Clear sky	Clear sky
Max RH (%)	100	99	99	100	100
Min RH (%)	63	49	48	46	54
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	N-E	E	S-E	E	E

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

STATUS OF MONSOON- 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): 21-23°C
Maximum RH (%): 94-99%
Minimum RH (%): 72-91%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

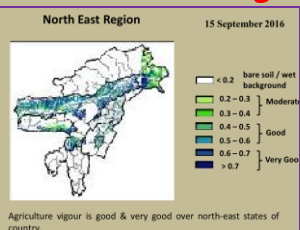
Rainfall: 43.5 mm

Weather forecast valid from 15th October, 2016 To 19th October, 2016.

There are chances of moderate and light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 30-32°C and 21-22°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 46-63%. Wind direction would be northeasterly to easterly to southeasterly and easterly with the wind speed of 2 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 05.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Harvesting stage		- Orange is picked when colour turn to dark green to pale yellow. - Mandarins and sweet oranges normally take 240-280 days to arrive at maturity. - Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days. - Limes and lemons take 150-160 days for maturity. - There may be 2 or 3 crops in a year in limes and lemons. - The cold storage conditions for long term storage for different citrus fruits are available. - Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.
		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.
Passion Fruit	Harvesting stage		- The vines start yielding fruits after 10 months of planting and bearing reaches optimum by 16-18 months. - There are two main periods of fruiting from August to December and March to May. - Fruits take 80-85 days to reach maturity. - Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up. - The fruits should be marketed quickly to prevent loss in weight and their appearance. - The rind becomes wrinkled on drying



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			but the pulp remains in good condition for several days.
		Fruit fly	- Collect and burn all infected plant. - In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Banana	Harvesting stage		- Change of colour from green to yellowish. - Fingers are about three quarters full i.e. 3/4 of fruit is rounded - Ridges should still be prominent on the remaining quarter of the finger. - Harvest bananas when they are swollen and green but before they become ripe (plump and yellow). - Too early (when the bananas are thin and dark green). - Too late (when they are thick and turning yellow).
		Banana Rhizome weevil	Apply insecticide like imidacloprid 0.5 ml or phosalone 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 beetle	- Removal of weeds from basin - Removal of unwanted sucker - Application of alphamethrin @ 0.01%.
Oil plam	Fruiting stage		Ablation: - Ablation is the removal of male and female flowers produced in the early stages of plantation. - This enables the plant to gain adequate stem girth, vigour and develop adequate root system. Flowering starts from 14th to 18th month after planting. - Start ablation immediately after the



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			appearance of inflorescences on the palms. - They can be removed easily by hand pulling or using the tool developed at DOPR. - Ablation can be extended up to 2-1/2 to 3 years depending upon the plant growth and vigour. Pollination: - Wind and insects assist pollination, but wind pollination is not adequate. - Effective pollinating insects like <i>Elaeidobius kamerunicus</i> helps in good pollination and fruit set. - Release of this weevil after 2-1/2 year of planting is advisable. - If the plants are not having good girth and vigour, release the weevils after 3 years.
Colocasia	Vegetative stage		- 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.
Brinjal	Harvesting stage		- 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



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Tomato	Nursery stage	Land preparation	dimethoate 2 ml/lit of water. - 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)
		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/lit of water.
Kharif Rice	Grain filling 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 dimethoate 2 ml/lit of water.
		Rice leafroller	- Stop indiscriminate use of fertilizer. - Use any systemic insecticide like Monocrotophos 1 ml/lit of water for light damage and 2 ml/lit of water for heavy



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Soybean	Vegetative stage	Zero tillage	damage. ✚ Clear base of the plant. ✚ Earthing up soil near to plant for better support.
Green gram, black gram and French bean (After Pre kharif rice harvest)	Vegetative stage	Stem girdler Zero tillage	✚ Clear base of the plant. ✚ Earthing up soil near to plant for better support. ✚ For French bean use bamboo for staking or support. ✚ Use split dose of fertilizer for better fruiting for French bean.
Pig	All stages	Pig disease	✚ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian doctor.
		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	Litter management		✚ Maintain light 12-14 hrs in brooder house. ✚ The litter should be 7.5- 10 cm deep. ✚ Saw dust, paddy husk or ground nut hulls can be used as litter. ✚ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult



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			birds.
			✚ B complex with antibodies
		4 th weeks	✚ Coccidiosis - Amprolium or coccidiostat
		4-5 th Weeks	✚ Calcium tonic fortified with B ₁₂
	Bacillary White Diarrhoea	All age KOLASIB	✚ Burn all the dead birds. ✚ Furaltadone@ 0.5 g/litre of water for 7 days.





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District: Mamit

Period: 15 October – 19 October, 2016

Bulletin No: - 645/2016/ Bulletin/Mizo

Date of issue: 14th October, 2016

Parameters	15.10.2016	16.10.2016	17.10.2016	18.10.2016	19.10.2016
Rainfall (mm)	3	2	0	0	0
Max Temp (oC)	30	30	31	31	32
Min Temp (oC)	21	21	21	22	22
Cloud Coverage	Partially clear	Mainly clear	Clear sky	Clear sky	Clear sky
Max RH (%)	100	99	99	100	100
Min RH (%)	63	49	48	46	54
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	N-E	E	S-E	E	E

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

STATUS OF MONSOON- 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

15th October– 19th October, 2016 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (oC):28-30oC
Minimum Tem. (oC):21-23oC
Maximum RH (%):94-99%
Minimum RH (%):72-91%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

Ni 2 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 30-32oC a ni ang a. A vawh lai berin 21-22oC ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 46-63% 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.

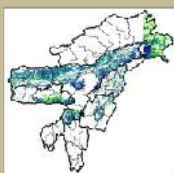
Rainfall: 43.5 mm

Weekly cumulative rainfall: 05.0mm

NDVI for Mizoram

North East Region

15 September 2016



Legend:
 < 0.2 bare soil / wet background
 0.2 – 0.3 Moderate
 0.3 – 0.4 Moderate
 0.4 – 0.5 Good
 0.5 – 0.6 Good
 0.6 – 0.7 Very Good
 > 0.7 Very Good

Agriculture vigour is good & very good over north-east states of country.

Moderately wet mildly dry/mildly wet conditions



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Mizoram Centre, Kolasib- 796081, 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 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 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	MIZAWL CHANPAI	- 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

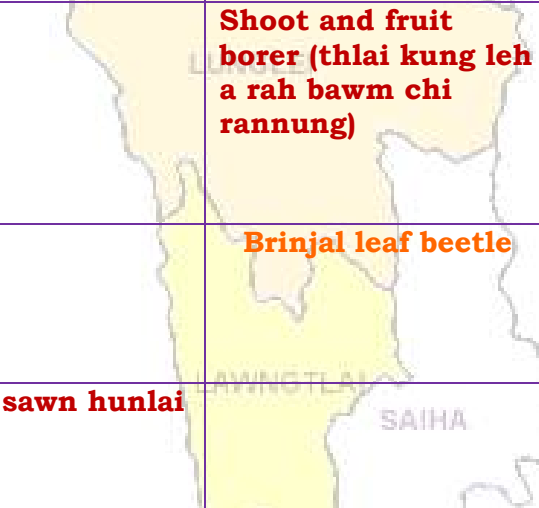


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	atanga seng hun thleng		tangkai lo ho paih tur. - A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk 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 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: Saiha

Period: 15 October – 19 October, 2016

Bulletin No: - 645/2016/ Bulletin/English

Date of issue: 14th October, 2016

Parameters	15.10.2016	16.10.2016	17.10.2016	18.10.2016	19.10.2016
Rainfall (mm)	0	0	0	3	6
Max Temp (°C)	31	31	31	30	30
Min Temp (°C)	22	22	22	21	21
Cloud Coverage	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	98	98	99
Min RH (%)	53	52	61	54	75
Wind Speed (Kmph)	2	2	4	2	2
*Wind Direction	N-E	N-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):21-23°C
Minimum Tem. (°C):11-13°C
Maximum RH (%):91-98%
Minimum RH (%):67-94%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind Speed: 1km/hr

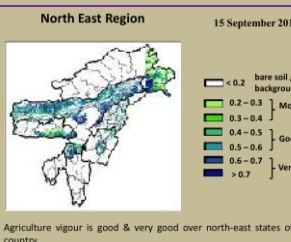
Rainfall: 28.6 mm

Weather forecast valid from 15th October, 2016 To 19th October, 2016.

There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 30-31°C and 21-22°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 52-75%. Wind direction would be northeasterly to easterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 09.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

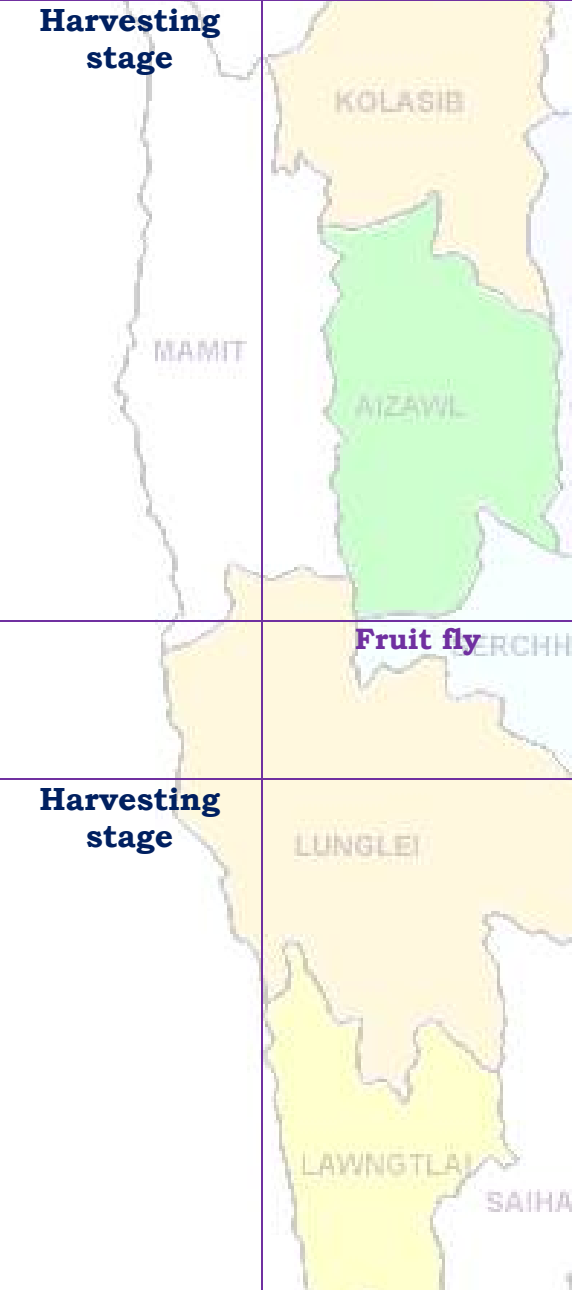


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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Harvesting stage		- Orange is picked when colour turn to dark green to pale yellow. - Mandarins and sweet oranges normally take 240-280 days to arrive at maturity. - Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days. - Limes and lemons take 150-160 days for maturity. - There may be 2 or 3 crops in a year in limes and lemons. - The cold storage conditions for long term storage for different citrus fruits are available. - Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.
		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.
Passion Fruit	Harvesting stage		- The vines start yielding fruits after 10 months of planting and bearing reaches optimum by 16-18 months. - There are two main periods of fruiting from August to December and March to May. - Fruits take 80-85 days to reach maturity. - Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up. - The fruits should be marketed quickly to prevent loss in weight and their appearance. - The rind becomes wrinkled on drying



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			but the pulp remains in good condition for several days.
		Fruit fly	- Collect and burn all infected plant. - In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Banana	Harvesting stage		- Change of colour from green to yellowish. - Fingers are about three quarters full i.e. 3/4 of fruit is rounded - Ridges should still be prominent on the remaining quarter of the finger. - Harvest bananas when they are swollen and green but before they become ripe (plump and yellow). - Too early (when the bananas are thin and dark green). - Too late (when they are thick and turning yellow).
		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 beetle	- Removal of weeds from basin - Removal of unwanted sucker - Application of alphamethrin @ 0.01%.
Oil plam	Fruiting stage		Ablation: - Ablation is the removal of male and female flowers produced in the early stages of plantation. - This enables the plant to gain adequate stem girth, vigour and develop adequate root system. Flowering starts from 14th to 18th month after planting. - Start ablation immediately after the



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			appearance of inflorescences on the palms. - They can be removed easily by hand pulling or using the tool developed at DOPR. - Ablation can be extended up to 2-1/2 to 3 years depending upon the plant growth and vigour. Pollination: - Wind and insects assist pollination, but wind pollination is not adequate. - Effective pollinating insects like <i>Elaeidobius kamerunicus</i> helps in good pollination and fruit set. - Release of this weevil after 2-1/2 year of planting is advisable. - If the plants are not having good girth and vigour, release the weevils after 3 years.
Colocasia	Vegetative stage		- 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.
Baibing (Local Vegetable)	Harvesting stage		- Weed free near base of the plant. - Harvest all mature fruits. - Keep seeds for next year.
Okra	Harvesting stage		- 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



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Brinjal	Harvesting stage		dimethoate 2 ml/lit of water. ✚ 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.
Tomato	Vegetative stage		✚ Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. ✚ Earthing up should also be done after 30 and 45 days of planting. ✚ Staking is very important to support the plants to get more yields and quality should be done after one month of planting. ✚ Mulching with black polythene film reduces weed growth, increase crop growth, early bearing and total yield.
		Bacterial wilt	✚ Uproot all infected plant and burn it. ✚ This disease can be minimized by practicing crop rotation. ✚ Soil dranching with Bordeaux mixture (1:1:100) after one month of planting is effective method to manage this disease.
Early Cole crop	Vegetative stage		✚ Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. ✚ To produce compact head, the plant should be earthing up 4-5 weeks after transplanting. ✚ Water should be applied at every week interval. ✚ Heavy irrigation is avoided at the time of maturity of head to avoid cracking.



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		N deficiency	- Deficiency is managed with the application of neem cake @0.4kg/m². - Apply 2% urea solution when this symptom will occur.
		P deficiency	- Deficiency is managed with the application of phosphorus based fertilizer @ 0.4kg/m². - Apply 4% DAP solution when this symptom will occur.
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/lit of water.
Capsicum	Nursery stage	Poly house	- Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
			- 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.
Onion	Nursery stage	Poly house	- Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
			- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g



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			captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	Sowing stage	KOLASIB	- Variable, healthy, well mature and pure seeds should be sown. - Optimum spacing for pole type 60 cm X 30 cm. - Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Kharif Rice	Panicle emergence to grain filling 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 dimethoate 2 ml/lt of water.
		Rice leafroller	- Stop indiscriminate use of fertilizer. - Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage and 2 ml/lt of water for heavy damage.
Kharif Maize	Harvesting stage		- Harvest all mature cobs. - Keep all mature cobs for sun dry. - After sundry hang all cobs in smoke for reduce maize weevil attack.
		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 and crop residues in/ around the fields. - Keep the cobs in slender position from the stem. - 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.



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Pig	All stages	Pig disease	Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian doctor.
		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	Litter management		- Maintain light 12-14 hrs in brooder house. - The litter should be 7.5- 10 cm deep. - Saw dust, paddy husk or ground nut hulls can be used as litter. - Add lime with Saw dust, paddy husk or ground nut for maintain moisture.
	Preventive measures	0-3rd week	Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
	Bacillary White Diarrhoea	All stage	- Burn all the dead birds. - Furaltadone@ 0.5 g/litre of water for 7 days.



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District: Saiha

Period: 15 October – 19 October, 2016

Bulletin No: - 645/2016/ Bulletin/Mizo

Date of issue: 14th October, 2016

Parameters	15.10.2016	16.10.2016	17.10.2016	18.10.2016	19.10.2016
Rainfall (mm)	0	0	0	3	6
Max Temp (°C)	31	31	31	30	30
Min Temp (°C)	22	22	22	21	21
Cloud Coverage	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	98	98	99
Min RH (%)	53	52	61	54	75
Wind Speed (Kmph)	2	2	4	2	2
*Wind Direction	N-E	N-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

15th October– 19th October, 2016 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):21-23°C
Minimum Tem. (°C):11-13°C
Maximum RH (%):91-98%
Minimum RH (%):67-94%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind Speed: 1km/hr

Ni 2 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai berin 21-22°C ni tura beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 52-75% 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.

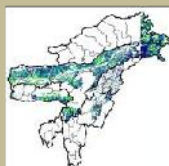
Rainfall: 28.6 mm

Weekly cumulative rainfall: 09.0mm

NDVI for Mizoram

North East Region

8 September 2016



Agriculture vigour is good & very good over north-east states of country.

Moderately wet mildly dry/mildly wet conditions



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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 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	MIZAWL CHANPAI	- 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

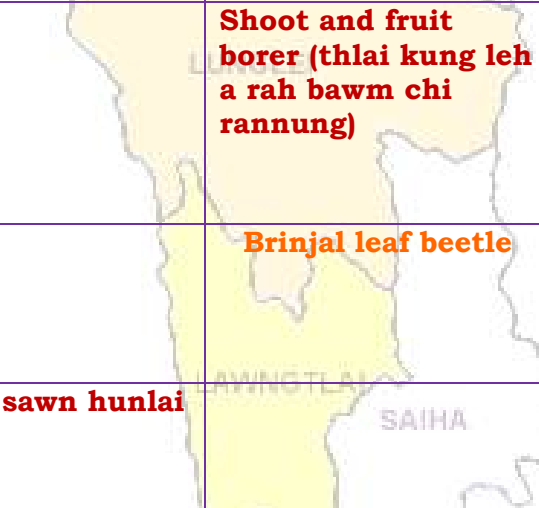


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	atanga seng hun thleng		tangkai lo ho paih tur. - A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk 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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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



			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: Serchhip

Period: 15 October – 19 October, 2016

Bulletin No: - 645/2016/ Bulletin/English

Date of issue: 14th October, 2016

Parameters	15.10.2016	16.10.2016	17.10.2016	18.10.2016	19.10.2016
Rainfall (mm)	3	2	0	5	9
Max Temp (°C)	30	30	31	31	31
Min Temp (°C)	22	22	22	22	21
Cloud Coverage	Partially clear	Partially clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	49	43	45	41	64
Wind Speed (Kmph)	2	2	2	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):22-24°C
Minimum Tem. (°C): 16-18°C
Maximum RH (%):92-98%
Minimum RH (%):76-92%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

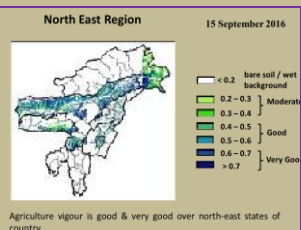
Rainfall: 23.1 mm

Weather forecast valid from 15th October, 2016 To 19th October, 2016.

There are chances of moderate and light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 30-31°C and 21-22°C. Maximum relative humidity is expected in the range of 100% and minimum may from 41-65%. Wind direction would be easterly with the wind speed of 2 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 19.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Harvesting stage		- Orange is picked when colour turn to dark green to pale yellow. - Mandarins and sweet oranges normally take 240-280 days to arrive at maturity. - Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days. - Limes and lemons take 150-160 days for maturity. - There may be 2 or 3 crops in a year in limes and lemons. - The cold storage conditions for long term storage for different citrus fruits are available. - Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.
		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.
Passion Fruit	Harvesting stage		- The vines start yielding fruits after 10 months of planting and bearing reaches optimum by 16-18 months. - There are two main periods of fruiting from August to December and March to May. - Fruits take 80-85 days to reach maturity. - Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up. - The fruits should be marketed quickly to prevent loss in weight and their appearance. - The rind becomes wrinkled on drying



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			but the pulp remains in good condition for several days.
		Fruit fly	- Collect and burn all infected plant. - In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Banana	Harvesting stage		- Change of colour from green to yellowish. - Fingers are about three quarters full i.e. 3/4 of fruit is rounded - Ridges should still be prominent on the remaining quarter of the finger. - Harvest bananas when they are swollen and green but before they become ripe (plump and yellow). - Too early (when the bananas are thin and dark green). - Too late (when they are thick and turning yellow).
		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 beetle	- Removal of weeds from basin - Removal of unwanted sucker - Application of alphamethrin @ 0.01%.
Oil plam	Fruiting stage		Ablation: - Ablation is the removal of male and female flowers produced in the early stages of plantation. - This enables the plant to gain adequate stem girth, vigour and develop adequate root system. Flowering starts from 14th to 18th month after planting. - Start ablation immediately after the



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			appearance of inflorescences on the palms. - They can be removed easily by hand pulling or using the tool developed at DOPR. - Ablation can be extended up to 2-1/2 to 3 years depending upon the plant growth and vigour. Pollination: - Wind and insects assist pollination, but wind pollination is not adequate. - Effective pollinating insects like <i>Elaeidobius kamerunicus</i> helps in good pollination and fruit set. - Release of this weevil after 2-1/2 year of planting is advisable. - If the plants are not having good girth and vigour, release the weevils after 3 years.
Colocasia	Vegetative stage		- 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.
Brinjal	Harvesting stage		- 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



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Tomato	Nursery stage	Land preparation	dimethoate 2 ml/lit of water. - 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)
		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/lit of water.
Kharif Rice	Grain filling 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 dimethoate 2 ml/lit of water.
		Rice leafroller	- Stop indiscriminate use of fertilizer. - Use any systemic insecticide like Monocrotophos 1 ml/lit of water for light damage and 2 ml/lit of water for heavy



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Soybean	Vegetative stage	Zero tillage	✚ Clear base of the plant. ✚ Earthing up soil near to plant for better support.
Green gram, black gram and French bean (After Pre kharif rice harvest)	Vegetative stage	Zero tillage	✚ Clear base of the plant. ✚ Earthing up soil near to plant for better support. ✚ For French bean use bamboo for staking or support. ✚ Use split dose of fertilizer for better fruiting for French bean.
Pig	All stages	Pig disease	✚ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian doctor.
		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	Litter management		✚ Maintain light 12-14 hrs in brooder house. ✚ The litter should be 7.5- 10 cm deep. ✚ Saw dust, paddy husk or ground nut hulls can be used as litter. ✚ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.



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			✚ B complex with antibodies
		4 th weeks	✚ Coccidiosis - Amprolium or coccidiostat
		4-5 th Weeks	✚ Calcium tonic fortified with B ₁₂
	Bacillary White Diarrhoea	All age	✚ Burn all the dead birds. ✚ Furaltadone@ 0.5 g/litre of water for 7 days.





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Bulletin No: - 645/2016/ Bulletin/Mizo

Date of issue: 14th October, 2016

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Max Temp (°C)	30	30	31	31	31
Min Temp (°C)	22	22	22	22	21
Cloud Coverage	Partially clear	Partially clear	Partially clear	Partially clear	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	49	43	45	41	64
Wind Speed (Kmph)	2	2	2	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

15th October– 19th October, 2016 chhunga sik leh sa dinhmun tur tlangpui

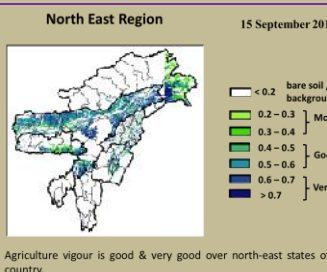
Maximum Tem. (°C):22-24°C
Minimum Tem. (°C): 16-18°C
Maximum RH (%):92-98%
Minimum RH (%):76-92%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

Ni 4 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai berin 21-22°C ni tura beisei a ni. RH san lai berin 99% leh a hniam lai berin 41-65% 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: 23.1 mm

Weekly cumulative rainfall: 19.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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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 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.



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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 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	MIZAWL CHANPAI	- 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

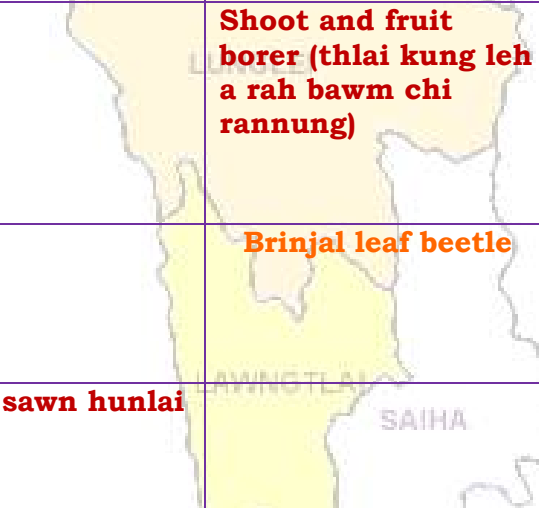


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	atanga seng hun thleng		tangkai lo ho paih tur. - A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk 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: Aizawl

Period: 15 October – 19 October, 2016

Bulletin No: - 645/2016/ Bulletin/English

Date of issue: 14th October, 2016

Parameters	15.10.2016	16.10.2016	17.10.2016	18.10.2016	19.10.2016
Rainfall (mm)	4	2	0	3	4
Max Temp (°C)	30	30	31	31	30
Min Temp (°C)	21	21	21	21	20
Cloud Coverage	Partially clear	Partially clear	Mainly clear	Clear Sky	Clear Sky
Max RH (%)	100	100	100	100	100
Min RH (%)	64	48	47	44	57
Wind Speed (Kmph)	2	2	2	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):24-28°C
Minimum Tem. (°C): 17-20°C
Maximum RH (%):97-100%
Minimum RH (%):68-83%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

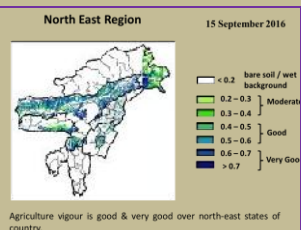
Rainfall: 45.6 mm

Weather forecast valid from 15th October, 2016 To 19th October, 2016.

There are chances of light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 30-31°C and 20-21°C. Maximum relative humidity is expected in the range of 100% and minimum may from 44-64%. Wind direction would be easterly with the wind speed of 2 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 13.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Harvesting stage		- Orange is picked when colour turn to dark green to pale yellow. - Mandarins and sweet oranges normally take 240-280 days to arrive at maturity. - Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days. - Limes and lemons take 150-160 days for maturity. - There may be 2 or 3 crops in a year in limes and lemons. - The cold storage conditions for long term storage for different citrus fruits are available. - Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.
		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.
Passion Fruit	Harvesting stage		- The vines start yielding fruits after 10 months of planting and bearing reaches optimum by 16-18 months. - There are two main periods of fruiting from August to December and March to May. - Fruits take 80-85 days to reach maturity. - Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up. - The fruits should be marketed quickly to prevent loss in weight and their appearance. - The rind becomes wrinkled on drying



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			but the pulp remains in good condition for several days.
		Fruit fly	- Collect and burn all infected plant. - In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Banana	Harvesting stage		- Change of colour from green to yellowish. - Fingers are about three quarters full i.e. 3/4 of fruit is rounded - Ridges should still be prominent on the remaining quarter of the finger. - Harvest bananas when they are swollen and green but before they become ripe (plump and yellow). - Too early (when the bananas are thin and dark green). - Too late (when they are thick and turning yellow).
		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 beetle	- Removal of weeds from basin - Removal of unwanted sucker - Application of alphamethrin @ 0.01%.
Oil plam	Fruiting stage		Ablation: - Ablation is the removal of male and female flowers produced in the early stages of plantation. - This enables the plant to gain adequate stem girth, vigour and develop adequate root system. Flowering starts from 14th to 18th month after planting. - Start ablation immediately after the



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			appearance of inflorescences on the palms. - They can be removed easily by hand pulling or using the tool developed at DOPR. - Ablation can be extended up to 2-1/2 to 3 years depending upon the plant growth and vigour. Pollination: - Wind and insects assist pollination, but wind pollination is not adequate. - Effective pollinating insects like <i>Elaeidobius kamerunicus</i> helps in good pollination and fruit set. - Release of this weevil after 2-1/2 year of planting is advisable. - If the plants are not having good girth and vigour, release the weevils after 3 years.
Colocasia	Vegetative stage		- 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.
Brinjal	Harvesting stage		- 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



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Tomato	Nursery stage	Land preparation	dimethoate 2 ml/lit of water. - 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)
		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/lit of water.
Kharif Rice	Grain filling 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 dimethoate 2 ml/lit of water.
		Rice leaf roller	- Stop indiscriminate use of fertilizer. - Use any systemic insecticide like Monocrotophos 1 ml/lit of water for light damage and 2 ml/lit of water for heavy



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Soybean	Vegetative stage	Zero tillage	damage. ✚ Clear base of the plant. ✚ Earthing up soil near to plant for better support.
Green gram, black gram and French bean (After Pre kharif rice harvest)	Vegetative stage	Zero tillage	✚ Clear base of the plant. ✚ Earthing up soil near to plant for better support. ✚ For French bean use bamboo for staking or support. ✚ Use split dose of fertilizer for better fruiting for French bean.
Pig	All stages	Pig disease	✚ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian doctor.
		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	Litter management		✚ Maintain light 12-14 hrs in brooder house. ✚ The litter should be 7.5- 10 cm deep. ✚ Saw dust, paddy husk or ground nut hulls can be used as litter. ✚ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.



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			✚ B complex with antibodies
		4 th weeks	✚ Coccidiosis - Amprolium or coccidiostat
		4-5 th Weeks	✚ Calcium tonic fortified with B ₁₂
	Bacillary White Diarrhoea	All age	✚ Burn all the dead birds. ✚ Furaltadone@ 0.5 g/litre of water for 7 days.





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District: Aizawl

Period: 15 October – 19 October, 2016

Bulletin No: - 645/2016/ Bulletin/Mizo

Date of issue: 14th October, 2016

Parameters	15.10.2016	16.10.2016	17.10.2016	18.10.2016	19.10.2016
Rainfall (mm)	4	2	0	3	4
Max Temp (oC)	30	30	31	31	30
Min Temp (oC)	21	21	21	21	20
Cloud Coverage	Partially clear	Partially clear	Mainly clear	Clear Sky	Clear Sky
Max RH (%)	100	100	100	100	100
Min RH (%)	64	48	47	44	57
Wind Speed (Kmph)	2	2	2	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

15th October– 19th October, 2016 chhunga sik leh sa dinhmun tur tlangpui

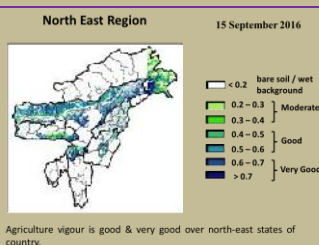
Maximum Tem. (oC):24-28oC
Minimum Tem. (oC): 17-20oC
Maximum RH (%):97-100%
Minimum RH (%):68-83%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 30-31oC a ni ang a. A vawh lai berin 20-21oC ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 44-64% ni tur a rin niin. Thli hi darkar khatah 2 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: 45.6 mm

Weekly cumulative rainfall: 13.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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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 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	MIZAWL CHANPAI	- 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

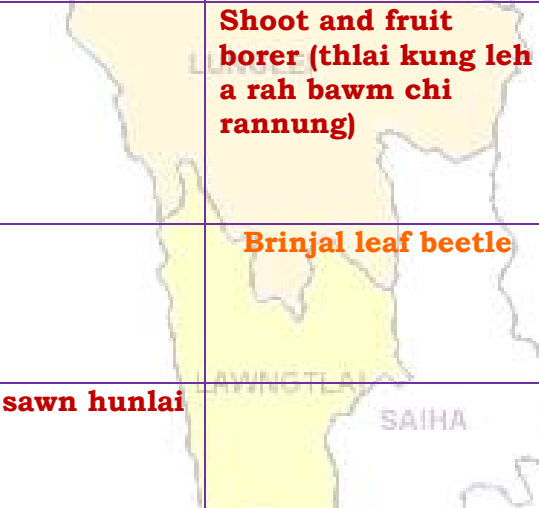


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	atanga seng hun thleng		tangkai lo ho paih tur. - A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk 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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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: 15 October – 19 October, 2016

Bulletin No: - 645/2016/ Bulletin/English

Date of issue: 14th October, 2016

Parameters	15.10.2016	16.10.2016	17.10.2016	18.10.2016	19.10.2016
Rainfall (mm)	3	2	0	5	9
Max Temp (°C)	30	30	31	30	30
Min Temp (°C)	20	20	21	21	20
Cloud Coverage	Partially clear	Mainly clear	Partially clear	Mainly clear	Clear sky
Max RH (%)	99	99	99	99	99
Min RH (%)	63	53	47	45	62
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF MONSOON- 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): 22-25°C
Minimum Tem. (°C): 16-19°C
Maximum RH (%):96-99%
Minimum RH (%):62-89%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind Speed: 2km/hr

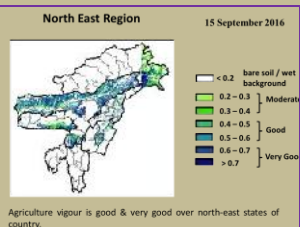
Rainfall: 35.3 mm

Weather forecast valid from 15th October, 2016 To 19th October, 2016.

There are chances of light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 30-31°C and 20-21°C. Maximum relative humidity is expected in the range of 99% and minimum may from 45-63%. Wind direction would be southeasterly to southeasterly with the wind speed of 2 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 19.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

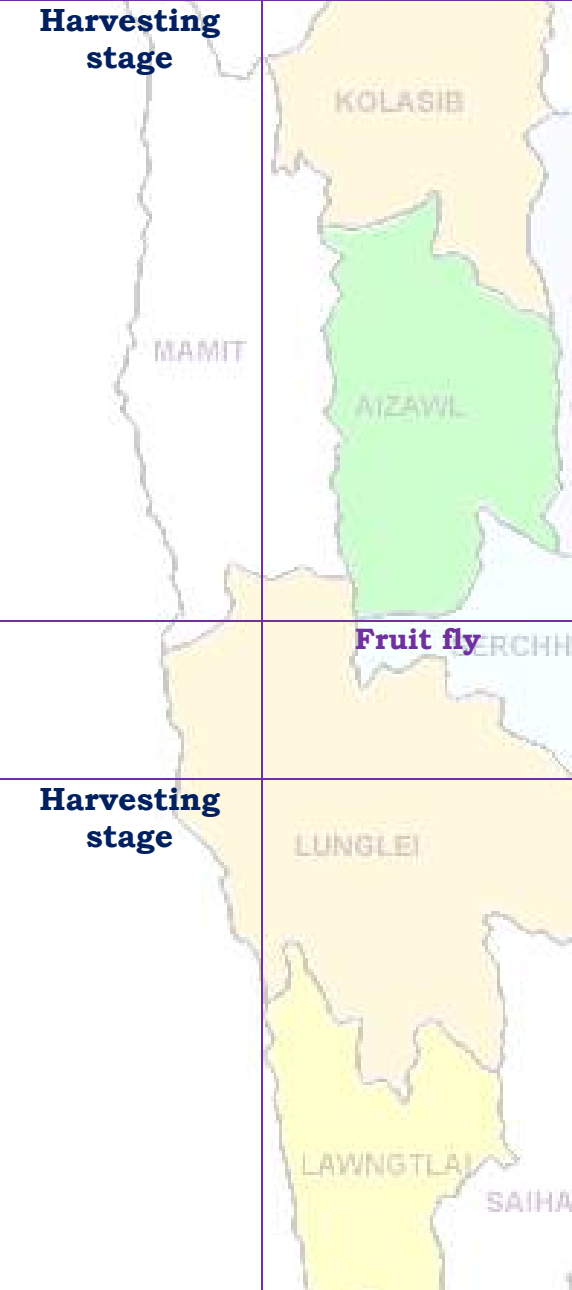
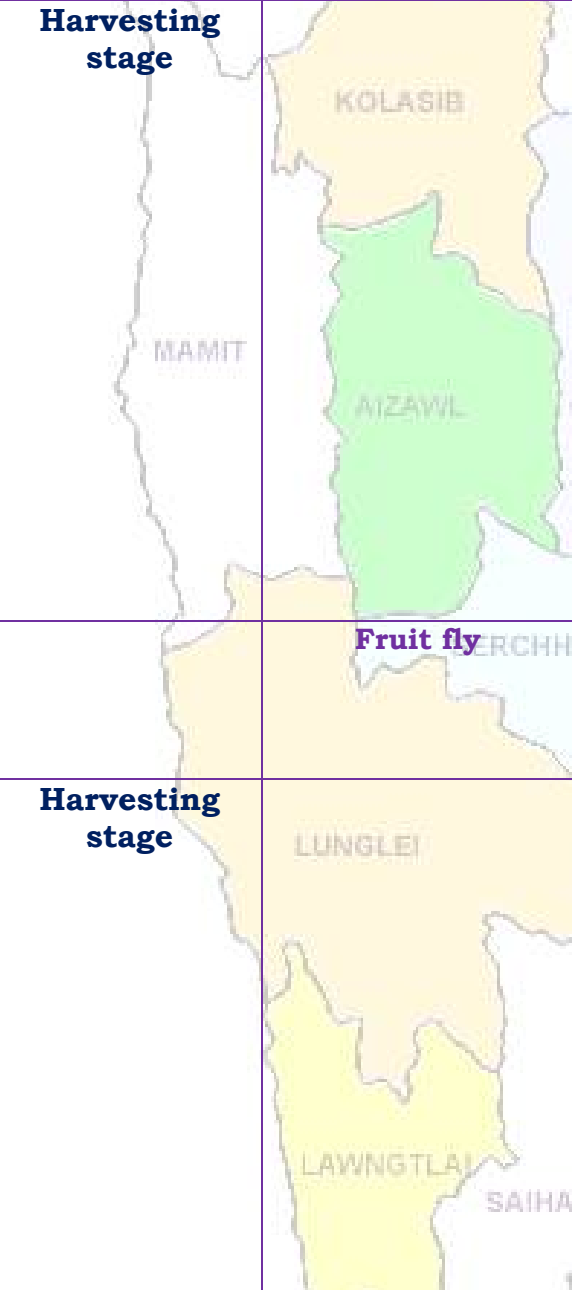


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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Harvesting stage		- Orange is picked when colour turn to dark green to pale yellow. - Mandarins and sweet oranges normally take 240-280 days to arrive at maturity. - Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days. - Limes and lemons take 150-160 days for maturity. - There may be 2 or 3 crops in a year in limes and lemons. - The cold storage conditions for long term storage for different citrus fruits are available. - Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.
		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.
Passion Fruit	Harvesting stage		- The vines start yielding fruits after 10 months of planting and bearing reaches optimum by 16-18 months. - There are two main periods of fruiting from August to December and March to May. - Fruits take 80-85 days to reach maturity. - Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up. - The fruits should be marketed quickly to prevent loss in weight and their appearance. - The rind becomes wrinkled on drying



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			but the pulp remains in good condition for several days.
		Fruit fly	- Collect and burn all infected plant. - In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Banana	Harvesting stage		- Change of colour from green to yellowish. - Fingers are about three quarters full i.e. 3/4 of fruit is rounded - Ridges should still be prominent on the remaining quarter of the finger. - Harvest bananas when they are swollen and green but before they become ripe (plump and yellow). - Too early (when the bananas are thin and dark green). - Too late (when they are thick and turning yellow).
		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 beetle	- Removal of weeds from basin - Removal of unwanted sucker - Application of alphamethrin @ 0.01%.
Oil plam	Fruiting stage		Ablation: - Ablation is the removal of male and female flowers produced in the early stages of plantation. - This enables the plant to gain adequate stem girth, vigour and develop adequate root system. Flowering starts from 14th to 18th month after planting. - Start ablation immediately after the



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			appearance of inflorescences on the palms. - They can be removed easily by hand pulling or using the tool developed at DOPR. - Ablation can be extended up to 2-1/2 to 3 years depending upon the plant growth and vigour. Pollination: - Wind and insects assist pollination, but wind pollination is not adequate. - Effective pollinating insects like <i>Elaeidobius kamerunicus</i> helps in good pollination and fruit set. - Release of this weevil after 2-1/2 year of planting is advisable. - If the plants are not having good girth and vigour, release the weevils after 3 years.
Colocasia	Vegetative stage		- 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.
Baibing (Local Vegetable)	Harvesting stage		- Weed free near base of the plant. - Harvest all mature fruits. - Keep seeds for next year.
Okra	Harvesting stage		- 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



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Brinjal	Harvesting stage		dimethoate 2 ml/lit of water. - 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.
Tomato	Vegetative stage		- Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. - Earthing up should also be done after 30 and 45 days of planting. - Staking is very important to support the plants to get more yields and quality should be done after one month of planting. - Mulching with black polythene film reduces weed growth, increase crop growth, early bearing and total yield.
		Bacterial wilt	- Uproot all infected plant and burn it. - This disease can be minimized by practicing crop rotation. - Soil dranching with Bordeaux mixture (1:1:100) after one month of planting is effective method to manage this disease.
Early Cole crop	Vegetative stage		- Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. - To produce compact head, the plant should be earthing up 4-5 weeks after transplanting. - Water should be applied at every



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			- week interval. - Heavy irrigation is avoided at the time of maturity of head to avoid cracking.
		N deficiency KOLASIB	- Deficiency is managed with the application of neem cake @0.4kg/m². - Apply 2% urea solution when this symptom will occur.
		P deficiency	- Deficiency is managed with the application of phosphorus based fertilizer @ 0.4kg/m². - Apply 4% DAP solution when this symptom will occur.
Capsicum	Nursery stage	Poly house MAMIT AIZAWL	- 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)
			- 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.
Onion	Nursery stage	Poly house SERCHHIP	- 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)
		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.
French bean	Sowing stage	LAWNGTLAI SAIHA	- Variable, healthy, well mature and pure seeds should be sown. - Optimum spacing for pole type 60 cm X 30 cm. - Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Ginger and	Vegetative		Remove unwanted plant near base of

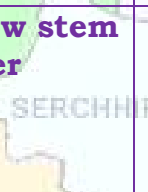


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turmeric	stage		the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, 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
Kharif Rice	Panicle emergence to grain filling stage		- Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water. - Remove unwanted plant by hand weeding. - Apply split dose of fertilizer. - Proper drainage is required to avoid water logging
			Rice yellow stem borer
			Rice leafroller
Kharif Maize	Harvesting stage		- Harvest all mature cobs. - Keep all mature cobs for sun dry. - After sundry hang all cobs in smoke for reduce maize weevil attack.
			Rat damage



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			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.
Pig	All stages	Pig disease KOLASIB	✚ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian doctor.
		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	Litter management	LUNGLEI	✚ Maintain light 12-14 hrs in brooder house. ✚ The litter should be 7.5- 10 cm deep. ✚ Saw dust, paddy husk or ground nut hulls can be used as litter. ✚ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B ₁₂
	Bacillary White Diarrhoea	All stage	✚ Burn all the dead birds. ✚ Furaldone@ 0.5 g/litre of water for 7 days.



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District: Champhai

Period: 15 October – 19 October, 2016

Bulletin No: - 645/2016/ Bulletin/Mizo

Date of issue: 14th October, 2016

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Min RH (%)	63	53	47	45	62
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF MONSOON- 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

15th October– 19th October, 2016 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C): 22-25°C
Minimum Tem. (°C): 16-19°C
Maximum RH (%):96-99%
Minimum RH (%):62-89%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind Speed: 2km/hr

Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai berin 20-21°C ni tura beisei a ni. RH san lai berin 99% leh a hniam lai berin 45-63% 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.

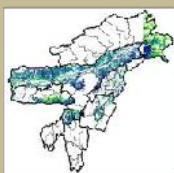
Rainfall: 35.3 mm

Weekly cumulative rainfall: 19.0mm

NDVI for Mizoram

North East Region

15 September 2016



< 0.2 bare soil / wet background
 0.2 – 0.3 } Moderate
 0.3 – 0.4 }
 0.4 – 0.5 } Good
 0.5 – 0.6 }
 0.6 – 0.7 } Very Good
 > 0.7 }

Agriculture vigour is good & very good over north-east states of country.

Moderately wet mildly dry/mildly wet conditions



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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 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 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	MIZAWL CHANPAI	- 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

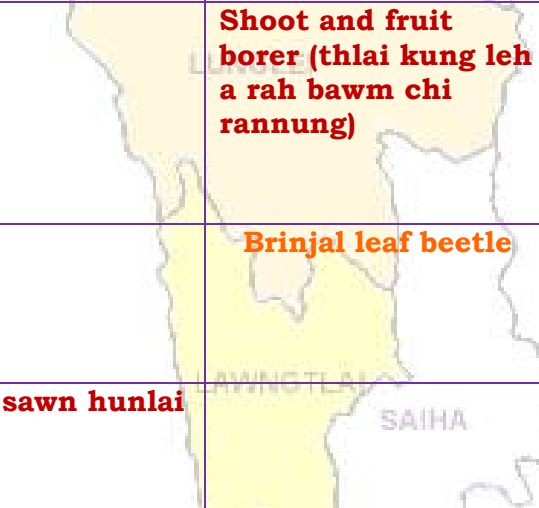


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	atanga seng hun thleng		tangkai lo ho paih tur. - A zung bul rih vur a leitha vawihnih pek tur. - Tui tling tur vennis tui hawk luankawr mumal tak siam tur. - A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk 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 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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