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: 06 - 10 August, 2016**

Bulletin No: - 625/2016/ Bulletin/English **Date of issue: 05th August, 2016**

Parameters	06.08.2016	07.08.2016	08.08.2016	09.08.2016	10.08.2016
Rainfall (mm)	22	8	17	32	5
Max Temp (ºC)	34	34	33	33	33
Min Temp (ºC)	26	26	27	27	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	99	99
Min RH (%)	77	68	87	80	77
Wind Speed (KmpH)	2	2	2	2	2
***Wind Direction**	N-E	E	S-E	S	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

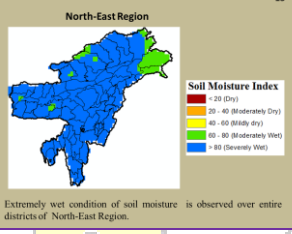
The temperature range for maximum and minimum were 23.3-25.4ºC and 18.4-19.5ºC respectively. Partially clear sky was observed. Wind direction is southeasterly. Maximum RH observed 81-98% & minimum of 49-86%. Rainfall recorded for the past three days is **22.30 mm. (Source-mosdac.gov.in)**

Weather forecast valid from 06th August, 2016 To 10th August, 2016.

There are chances of moderate and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 33-34ºC and 25-27ºC. Maximum relative humidity is expected in the range of 99% and minimum may from 68-87%. Wind direction would be northerly to easterly to southeaster to southerly and southeasterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: **84.0 mm**

NDVI for Mizoram



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

Extremely wet condition occur in all district of Mizoram

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	**Transplanting stage**		▪ Citrus trees should be planted in a sunny and wind-protected area. ▪ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. ▪ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ▪ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. ▪ To plant citrus trees inside from seeds, remove the seeds from the desired fruit. Soak the seeds overnight in water and plant them ½ inch deep in moist potting soil. Cover the pot with a plastic bag or wrap and let it sit in a warm and sunny spot for a few weeks until the seeds start to grow. Then, remove the plastic but keep the pot near a warm and sunny window.
		Citrus cancar	▪ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ▪ Control minor infections limited to a small area of the tree by pruning away the affected parts. ▪ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	▪ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which

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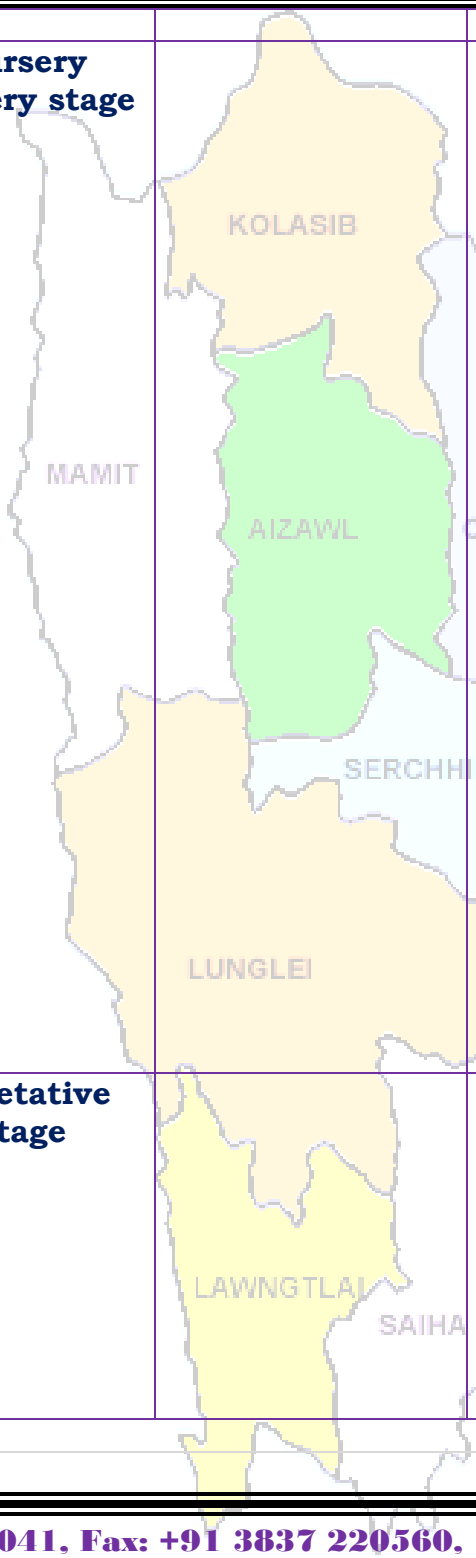
			coincides with I Fortnight of July.
Oil plam	**Nursery nursery stage**		✦ Smaller polybags of 250 guage and 23 x 13 cm size, preferably black are used for raising primary nurseries. ✦ These bags are filled with the potting mixture (Top soil, sand and well decomposed cattle manure in equal proportions) leaving one cm at the top of the bag. ✦ A healthy germinated sprout is placed at the centre at 2.5 cm depth. ✦ Plumule of the sprout facing upwards and the radicle downwards in the soil. ✦ The seedlings are to be watered daily. ✦ Application of a fertilizer mixture containing one part of ammonium sulphate, one part of super phosphate, one part of muriate of potash and two parts of magnesium sulphate is recommended at 15 g at one month stage, 45 g at three months stage and 60 g at six months stage per seedling. ✦ This has to be applied 6 - 8 cm away from seedlings during the first application, 10-12 cm away during second and 15-20 cm away during the third application in primary nursery. ✦ Surface soil is slightly scratched at the time of fertilizer application.
Oil plam	**Vegetative stage**		✦ Cleaning near base of the plant and cut unwanted branches. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt). ✦ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole

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			orchard. - Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Flowering to fruit formation stage**		- Clear near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
		Banana Rhizome weevil	- Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	- Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	**Maturity stage**		- Fruits usually mature in 120 to 140 days after flowering. - The fruit bunch is harvested when the ridges on their surface changes from angular to round. - The dried parts of flowers at the top of fruit drop off easily. - The top most leaf starts drying as the bunch matures. - Colour of fruits or fingers changes from dark green to pale green.
		Banana fruit caterpillar	- Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
		Banana thrips	- Covering bunches with polyethylene bags during fruit development provides a physical barrier to insect infestations.

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			✦ Spraying Imidachloroprid @ 1.5 ml/lt of rice to immature bunches and the surrounding soil can significantly reduce thrips damage to the fruit.
Passion Fruit (Kharif Season)	**Transplanting stage**		✦ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✦ A cutting should contain at least 3 buds and must be planted in sand beds. ✦ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✦ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Passion Fruit (Pre Kharif)	**Vegetative stage**		✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant. ✦ In dry spell apply mulch with grass. ✦ Trellises are in the north-south direction to minimize the shades during early morning and late evening. ✦ Young vines are trained to grow along the wire support of the trellises.
		Aphid and mite	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	**Harvest stage**		✦ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✦ Fresh fruits destined for the local market are plucked when almost ripe. ✦ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
		Rat damage	✦ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.

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			✦ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields. ✦ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
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.
Cucurbitaceous crop	**Harvesting stage**		✦ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✦ Weeding can be done by hoeing as and when necessary. ✦ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✦ Harvest all mature fruit.
		Fruit fly	✦ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	**Vegetative to flowering 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. ✦ Harvest all mature fruit.
		Okra leafroller	✦ Apply insecticide like imidacloprid 0.5 ml or

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			phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Cowpea	**Fruit initiation to harvest**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. ✚ Harvest all mature fruit.
Brinjal	**Fruit initiation to harvest**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. ✚ Mulching with black polythene film reduces weed growth, increases the crop growth. ✚ Split dose of fertilizer application @ 50kg/ha urea. ✚ Harvest all mature fruit.
		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/lt of water.
		Brinjal leaf beetle	✚ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	**Maximum tillering stage**		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of 25 %fertilizer(25 kg/ha urea). ✚ Proper drainage is required to avoid water logging. ✚ Use kono weeder 2-3 times for weed suppression in rows.
Pre kharif Rice	**Panicle Initiation stage**		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging

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		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.
Pre kharif Maize	**Harvesting stage**		✚ Harvest all the matured and immature cobs. ✚ Keep all matured cobs for sundry. ✚ Hang all matured cobs in smoke.
Kharif Maize	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earting up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer	✚ Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
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-1in 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-1arge effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif pulses (Green gram, Black gram and Rajma)	**Flowering to pod formation stage**		✚ Remove unwanted plant from terrace and riser. ✚ Remove all infected pant and burn it.
		Aphid and bug	✚ Manually collect and destroy the insect. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.

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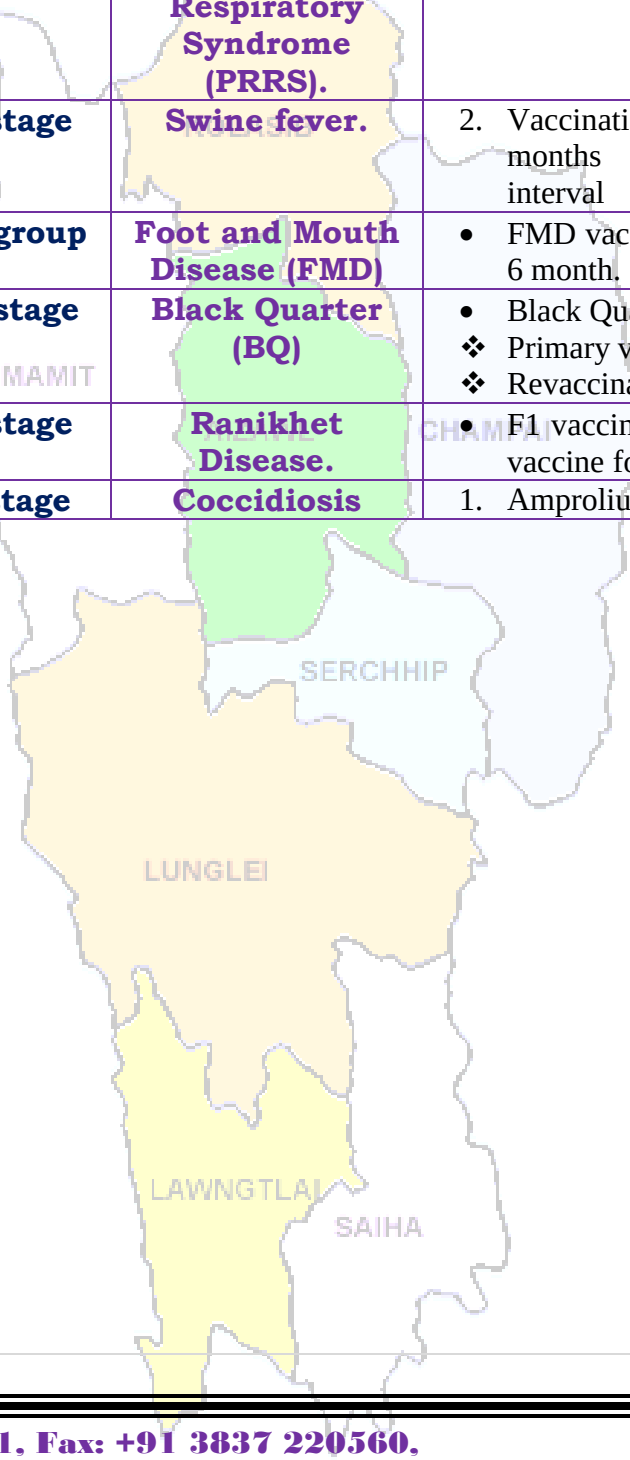
Pig	**All stages**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	**All age group**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat



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

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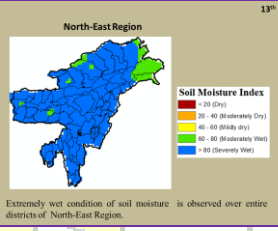
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

Ni thum kalta sik leh sa dinhmun tlangpui	6th August – 10th August, 2016 chhunga sik leh sa dinhmun tur tlangpui
Khua a lum lai berin 23.3-25.4^{0}C leh a vawh lai berin 18.4-19.5^{0}C ani a. Chhum a tam tlangpui. Thli tleh dan kawng zawng chu chhim lam atangin chhak lamah a tleh (a thaw) a ni. Boruak uap zawng (relative humidity) san lai berin 81-98% a ni a, a hniam lai berin 49-86% ani. Ni 3 kal ta chhung a ruah tla zat chu **22.30 mm** a ni. **(Source- Mosdac.gov.in)**	Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 33-34^{0}C a ni ang a. A vawh lai ber in 25-27^{0}C ni tura beisei a ni. RH san lai berin 99% leh a hniam lai berin 68-87% 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. ***Weekly cumulative rainfall:*** **84.0mm**
NDVI for Mizoram	 Extremely wet condition of soil moisture is observed over entire districts of North-East Region.	Extremely wet condition occur in all district of Mizoram

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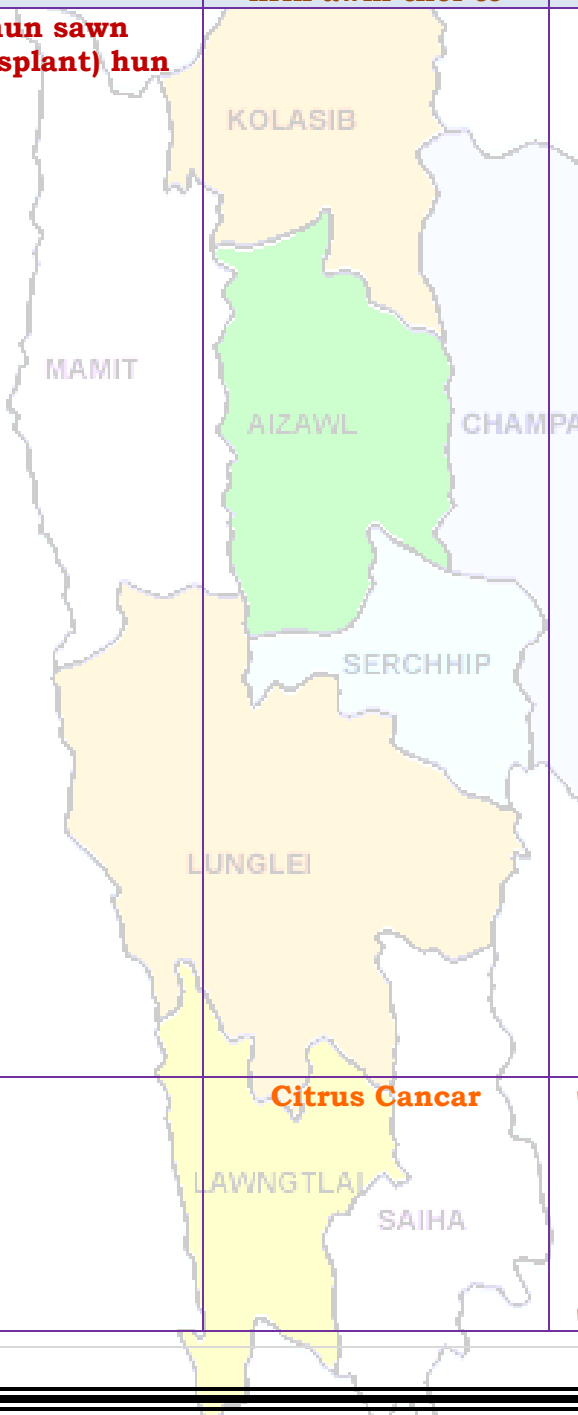
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	**Phun sawn (transplant) hun**		✦ Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmunah phun tur a ni. ✦ Chin hunbi bik a awm 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 chiah 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 leafminor and butterfly	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
Oil Palm	**A tet lai**		Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni. Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni. Oil palm tiak chu 2.5cm vela thuk in phum tur. Nitin tui pek tur. A tiak pakhat tan leitha SSP, MOP leh Mg_2SO_4 cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni. A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni. Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.
	Par a chhuah hma		A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni. Kung khatah 600:200:100 (NPK) hi hmun 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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			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		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	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**		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)	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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			✦ 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**		✦ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ✦ Tuthlawh hmangin hnim thlawh mai tur a ni. ✦ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni. ✦ A rah puitling ho chu seng nghal zel tur a ni.
		Fruit fly	✦ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrhsaiabe	**A par hma deuh atang a par thleng**		✦ 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**		✦ A bul vel tihfai that a, a zar

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

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			✦ Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Kharif rice	**A peng insiamtur zawng zawng insiam zawh hnu lawk**		✦ 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**		✦ 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**		✦ 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**		✦ 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**		✦ 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_2B 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: Kolasib **Period:** 06 - 10 August, 2016

Bulletin No: - 625/2016/ Bulletin/English **Date of issue:** 05th August, 2016

Parameters	06.08.2016	07.08.2016	08.08.2016	09.08.2016	10.08.2016
Rainfall (mm)	9	8	13	6	5
Max Temp (ºC)	34	35	35	35	34
Min Temp (ºC)	26	25	25	26	26
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	99	97
Min RH (%)	69	67	89	90	73
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	N-E	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

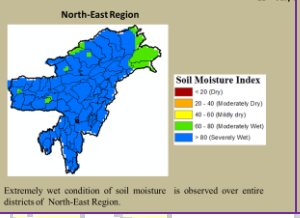
The temperature range for maximum and minimum were 26.8-31.5ºC and 19.4-23.3ºC respectively. Partially clear sky was observed. Wind direction is southeasterly. Maximum RH observed 78-92% & minimum of 57-82%. Rainfall recorded for the past three days is **25.30 mm.**

Weather forecast valid from 06th August, 2016 To 10th August, 2016.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 34-35ºC and 25-26ºC. Maximum relative humidity is expected in the range of 97-99% and minimum may from 67-90%. Wind direction would be northeasterly to easterly to southeasterly to southerly and easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: **41.0 mm**

NDVI for Mizoram



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

Extremely wet condition occur in all district of Mizoram

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	**Transplanting stage**		▪ Citrus trees should be planted in a sunny and wind-protected area. ▪ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. ▪ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ▪ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. ▪ To plant citrus trees inside from seeds, remove the seeds from the desired fruit. Soak the seeds overnight in water and plant them ½ inch deep in moist potting soil. Cover the pot with a plastic bag or wrap and let it sit in a warm and sunny spot for a few weeks until the seeds start to grow. Then, remove the plastic but keep the pot near a warm and sunny window.
		Citrus cancar	▪ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ▪ Control minor infections limited to a small area of the tree by pruning away the affected parts. ▪ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	▪ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which

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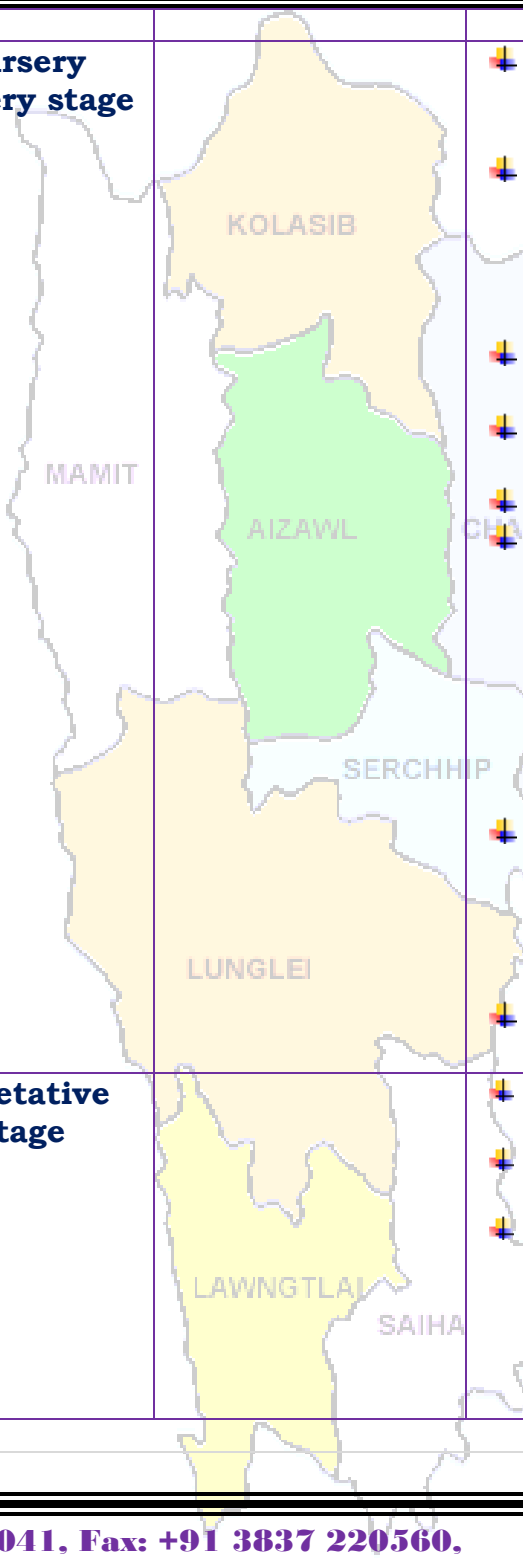
			coincides with I Fortnight of July.
Oil plam	**Nursery nursery stage**		✚ Smaller polybags of 250 guage and 23 x 13 cm size, preferably black are used for raising primary nurseries. ✚ These bags are filled with the potting mixture (Top soil, sand and well decomposed cattle manure in equal proportions) leaving one cm at the top of the bag. ✚ A healthy germinated sprout is placed at the centre at 2.5 cm depth. ✚ Plumule of the sprout facing upwards and the radicle downwards in the soil. ✚ The seedlings are to be watered daily. ✚ Application of a fertilizer mixture containing one part of ammonium sulphate, one part of super phosphate, one part of muriate of potash and two parts of magnesium sulphate is recommended at 15 g at one month stage, 45 g at three months stage and 60 g at six months stage per seedling. ✚ This has to be applied 6 - 8 cm away from seedlings during the first application, 10-12 cm away during second and 15-20 cm away during the third application in primary nursery. ✚ Surface soil is slightly scratched at the time of fertilizer application.
Oil plam	**Vegetative stage**		✚ Cleaning near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole

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			orchard. - Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Flowering to fruit formation stage**		- Clear near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
		Banana Rhizome weevil	- Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	- Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	**Maturity stage**		- Fruits usually mature in 120 to 140 days after flowering. - The fruit bunch is harvested when the ridges on their surface changes from angular to round. - The dried parts of flowers at the top of fruit drop off easily. - The top most leaf starts drying as the bunch matures. - Colour of fruits or fingers changes from dark green to pale green.
		Banana fruit caterpillar	- Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
		Banana thrips	- Covering bunches with polyethylene bags during fruit development provides a physical barrier to insect infestations.

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			✦ Spraying Imidachloroprid @ 1.5 ml/lt of rice to immature bunches and the surrounding soil can significantly reduce thrips damage to the fruit.
Passion Fruit (Kharif Season)	**Transplanting stage**		✦ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✦ A cutting should contain at least 3 buds and must be planted in sand beds. ✦ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✦ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Passion Fruit (Pre Kharif)	**Vegetative stage**		✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant. ✦ In dry spell apply mulch with grass. ✦ Trellises are in the north-south direction to minimize the shades during early morning and late evening. ✦ Young vines are trained to grow along the wire support of the trellises.
		Aphid and mite	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	**Harvest stage**		✦ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✦ Fresh fruits destined for the local market are plucked when almost ripe. ✦ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
		Rat damage	✦ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.

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			✦ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields. ✦ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
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.
Cucurbitaceous crop	**Harvesting stage**		✦ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✦ Weeding can be done by hoeing as and when necessary. ✦ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✦ Harvest all mature fruit.
		Fruit fly	✦ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	**Vegetative to flowering 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. ✦ Harvest all mature fruit.
		Okra leafroller	✦ Apply insecticide like imidacloprid 0.5 ml or

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			phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Cowpea	**Fruit initiation to harvest**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. ✚ Harvest all mature fruit.
Brinjal	**Fruit initiation to harvest**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. ✚ Mulching with black polythene film reduces weed growth, increases the crop growth. ✚ Split dose of fertilizer application @ 50kg/ha urea. ✚ Harvest all mature fruit.
		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/lt of water.
		Brinjal leaf beetle	✚ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	**Maximum tillering stage**		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of 25 %fertilizer(25 kg/ha urea). ✚ Proper drainage is required to avoid water logging. ✚ Use kono weeder 2-3 times for weed suppression in rows.
Pre kharif Rice	**Panicle Initiation stage**		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging

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		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.
Pre kharif Maize	**Harvesting stage**		✚ Harvest all the matured and immature cobs. ✚ Keep all matured cobs for sundry. ✚ Hang all matured cobs in smoke.
Kharif Maize	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earting up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer	✚ Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
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-1in 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-1arge effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif pulses (Green gram, Black gram and Rajma)	**Flowering to pod formation stage**		✚ Remove unwanted plant from terrace and riser. ✚ Remove all infected pant and burn it.
		Aphid and bug	✚ Manually collect and destroy the insect. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.

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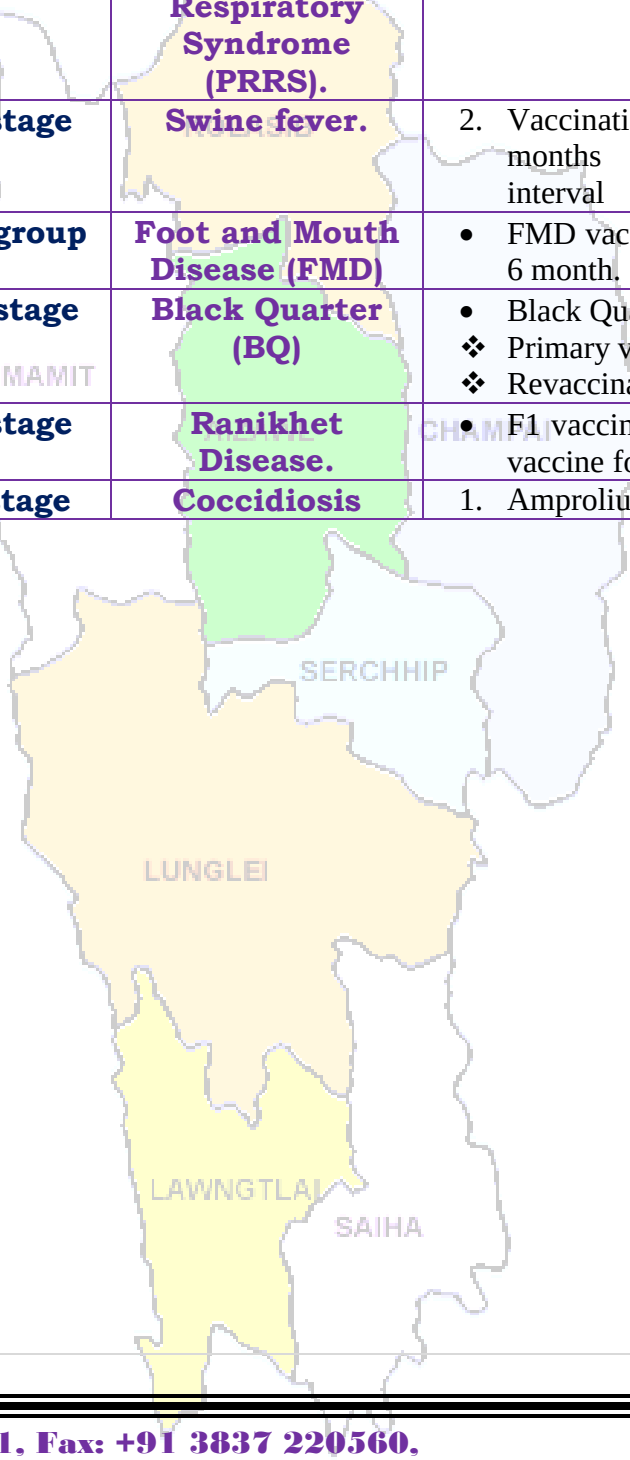
Pig	**All stages**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	**All age group**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat



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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Kolasib **Period: 06 - 10 August, 2016**

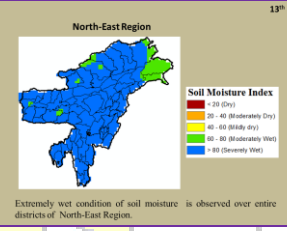
Bulletin No: - 625/2016/ Bulletin/Mizo **Date of issue: 05th August, 2016**

Parameters	06.08.2016	07.08.2016	08.08.2016	09.08.2016	10.08.2016
Rainfall (mm)	9	8	13	6	5
Max Temp (oC)	34	35	35	35	34
Min Temp (oC)	26	25	25	26	26
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	99	97
Min RH (%)	69	67	89	90	73
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	N-E	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	6th August – 10th August, 2016 chhunga sik leh sa dinhmun tur tlangpui
Khua a lum lai berin 26.8-31.5^{0}C leh a vawh lai berin 19.4-23.3^{0}C ani a. Chhum a tam tlangpui. Thli tleh dan kawng zawng chu chhim lam atangin chhak lamah a tleh (a thaw) a ni. Boruak uap zawng (relative humidity) san lai berin 78-92% a ni a, a hniam lai berin 57-82% ani. Ni 3 kal ta chhung a ruah tla zat chu **25.30 mm** a ni. **(Source- Mosdac.gov.in)**	Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 34-35^{0}C a ni ang a. A vawh lai ber in 25-26^{0}C ni tura beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 67-90% 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. ***Weekly cumulative rainfall:*** **41.0mm**
NDVI for Mizoram	 Extremely wet condition of soil moisture is observed over entire districts of North-East Region.	Extremely wet condition occur in all district of Mizoram

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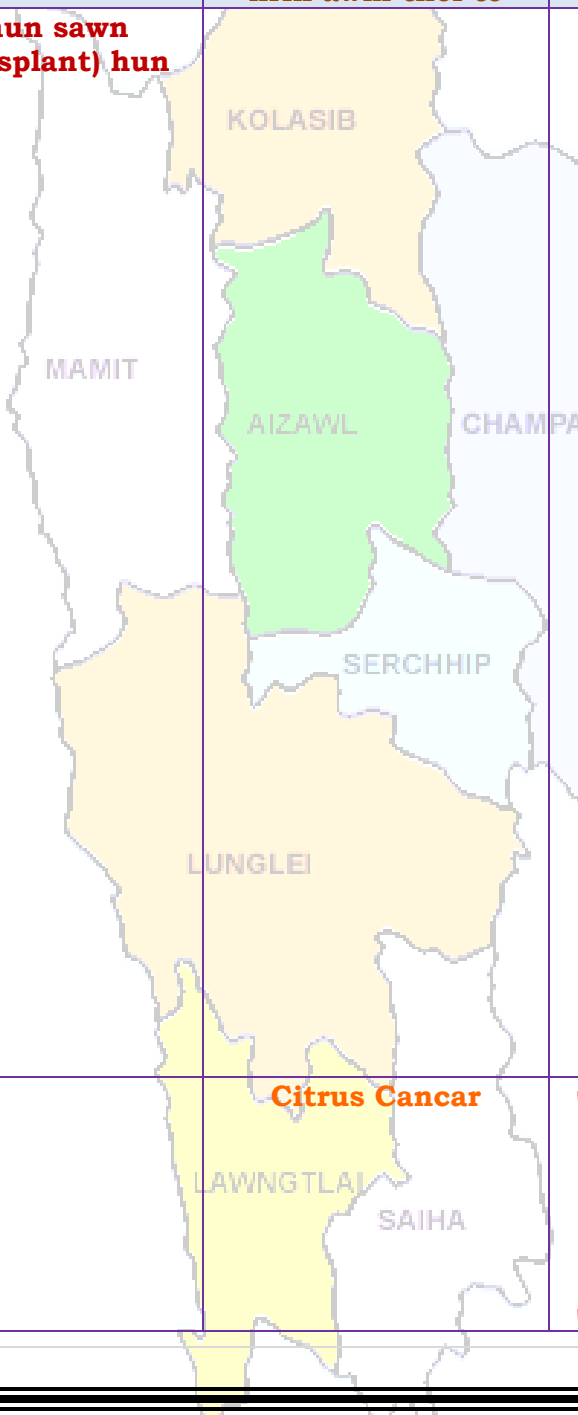
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	**Phun sawn (transplant) hun**		✦ Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmunah phun tur a ni. ✦ Chin hunbi bik a awm 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 chiah 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 leafminor and butterfly	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
Oil Palm	**A tet lai**		Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni. Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni. Oil palm tiak chu 2.5cm vela thuk in phum tur. Nitin tui pek tur. A tiak pakhat tan leitha SSP, MOP leh Mg_2SO_4 cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni. A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni. Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.
	Par a chhuah hma		A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni. Kung khatah 600:200:100 (NPK) hi hmun 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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			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		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	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**		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)	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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			✦ 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**		✦ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ✦ Tuthlawh hmangin hnim thlawh mai tur a ni. ✦ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni. ✦ A rah puitling ho chu seng nghal zel tur a ni.
		Fruit fly	✦ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrhsaiabe	**A par hma deuh atang a par thleng**		✦ 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**		✦ A bul vel tihfai that a, a zar

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

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			✦ Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Kharif rice	**A peng insiamtur zawng zawng insiam zawh hnu lawk**		✦ 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**		✦ 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**		✦ 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**		✦ 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**		✦ 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_2B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Lawngtlai **Period:** 06 - 10 August, 2016

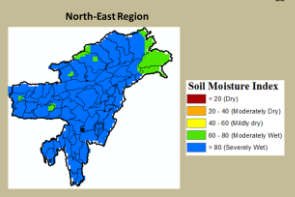
Bulletin No: - 625/2016/ Bulletin/English **Date of issue:** 05th August, 2016

Parameters	06.08.2016	07.08.2016	08.08.2016	09.08.2016	10.08.2016
Rainfall (mm)	10	5	5	9	5
Max Temp (ºC)	34	34	33	33	33
Min Temp (ºC)	25	25	25	25	24
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	94	95	96	97	96
Min RH (%)	71	61	71	66	67
Wind Speed (KmpH)	6	5	4	5	5
*Wind Direction	S-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	Weather forecast valid from 06th August, 2016 To 10th August, 2016.
	There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 33-34ºC and 24-25ºC. Maximum relative humidity is expected in the range of 94-97% and minimum may from 61-71%. Wind direction would be southeasterly to easterly with the wind speed of 4-6 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **34.0 mm**
NDVI for Mizoram	 Extremely wet condition of soil moisture is observed over entire districts of North-East Region. Extremely wet condition occur in all district of Mizoram

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	**Transplanting stage**		▪ Citrus trees should be planted in a sunny and wind-protected area. ▪ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. ▪ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ▪ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. ▪ To plant citrus trees inside from seeds, remove the seeds from the desired fruit. Soak the seeds overnight in water and plant them ½ inch deep in moist potting soil. Cover the pot with a plastic bag or wrap and let it sit in a warm and sunny spot for a few weeks until the seeds start to grow. Then, remove the plastic but keep the pot near a warm and sunny window.
		Citrus cancar	▪ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ▪ Control minor infections limited to a small area of the tree by pruning away the affected parts. ▪ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	▪ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which

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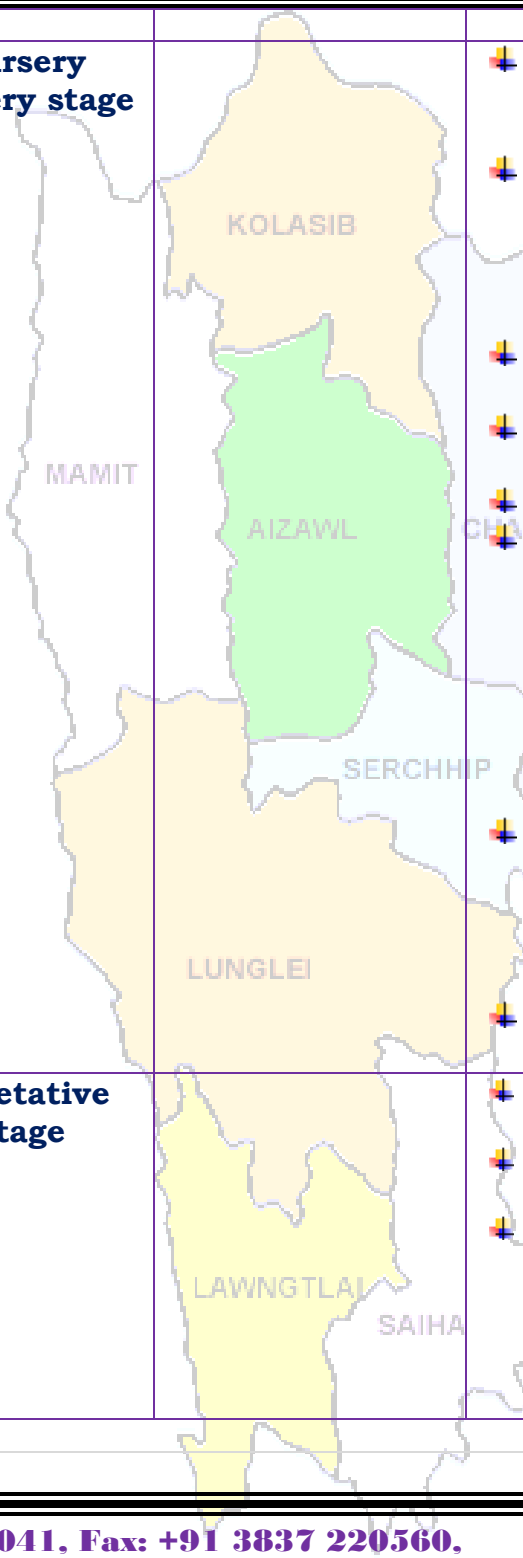
			coincides with I Fortnight of July.
Oil plam	**Nursery nursery stage**		✦ Smaller polybags of 250 guage and 23 x 13 cm size, preferably black are used for raising primary nurseries. ✦ These bags are filled with the potting mixture (Top soil, sand and well decomposed cattle manure in equal proportions) leaving one cm at the top of the bag. ✦ A healthy germinated sprout is placed at the centre at 2.5 cm depth. ✦ Plumule of the sprout facing upwards and the radicle downwards in the soil. ✦ The seedlings are to be watered daily. ✦ Application of a fertilizer mixture containing one part of ammonium sulphate, one part of super phosphate, one part of muriate of potash and two parts of magnesium sulphate is recommended at 15 g at one month stage, 45 g at three months stage and 60 g at six months stage per seedling. ✦ This has to be applied 6 - 8 cm away from seedlings during the first application, 10-12 cm away during second and 15-20 cm away during the third application in primary nursery. ✦ Surface soil is slightly scratched at the time of fertilizer application.
Oil plam	**Vegetative stage**		✦ Cleaning near base of the plant and cut unwanted branches. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt). ✦ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole

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			orchard. - Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Flowering to fruit formation stage**		- Clear near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
		Banana Rhizome weevil	- Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	- Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	**Maturity stage**		- Fruits usually mature in 120 to 140 days after flowering. - The fruit bunch is harvested when the ridges on their surface changes from angular to round. - The dried parts of flowers at the top of fruit drop off easily. - The top most leaf starts drying as the bunch matures. - Colour of fruits or fingers changes from dark green to pale green.
		Banana fruit caterpillar	- Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
		Banana thrips	- Covering bunches with polyethylene bags during fruit development provides a physical barrier to insect infestations.

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			✦ Spraying Imidachloroprid @ 1.5 ml/lt of rice to immature bunches and the surrounding soil can significantly reduce thrips damage to the fruit.
Passion Fruit (Kharif Season)	**Transplanting stage**		✦ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✦ A cutting should contain at least 3 buds and must be planted in sand beds. ✦ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✦ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Passion Fruit (Pre Kharif)	**Vegetative stage**		✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant. ✦ In dry spell apply mulch with grass. ✦ Trellises are in the north-south direction to minimize the shades during early morning and late evening. ✦ Young vines are trained to grow along the wire support of the trellises.
		Aphid and mite	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	**Harvest stage**		✦ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✦ Fresh fruits destined for the local market are plucked when almost ripe. ✦ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
		Rat damage	✦ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.

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			✦ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields. ✦ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
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.
Cucurbitaceous crop	**Harvesting stage**		✦ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✦ Weeding can be done by hoeing as and when necessary. ✦ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✦ Harvest all mature fruit.
		Fruit fly	✦ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	**Vegetative to flowering 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. ✦ Harvest all mature fruit.
		Okra leafroller	✦ Apply insecticide like imidacloprid 0.5 ml or

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			phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Cowpea	**Fruit initiation to harvest**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. ✚ Harvest all mature fruit.
Brinjal	**Fruit initiation to harvest**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. ✚ Mulching with black polythene film reduces weed growth, increases the crop growth. ✚ Split dose of fertilizer application @ 50kg/ha urea. ✚ Harvest all mature fruit.
		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/lt of water.
		Brinjal leaf beetle	✚ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	**Maximum tillering stage**		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of 25 %fertilizer(25 kg/ha urea). ✚ Proper drainage is required to avoid water logging. ✚ Use kono weeder 2-3 times for weed suppression in rows.
Pre kharif Rice	**Panicle Initiation stage**		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging

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		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.
Pre kharif Maize	**Harvesting stage**		✚ Harvest all the matured and immature cobs. ✚ Keep all matured cobs for sundry. ✚ Hang all matured cobs in smoke.
Kharif Maize	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earting up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer	✚ Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
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-1in 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-1arge effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif pulses (Green gram, Black gram and Rajma)	**Flowering to pod formation stage**		✚ Remove unwanted plant from terrace and riser. ✚ Remove all infected pant and burn it.
		Aphid and bug	✚ Manually collect and destroy the insect. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.

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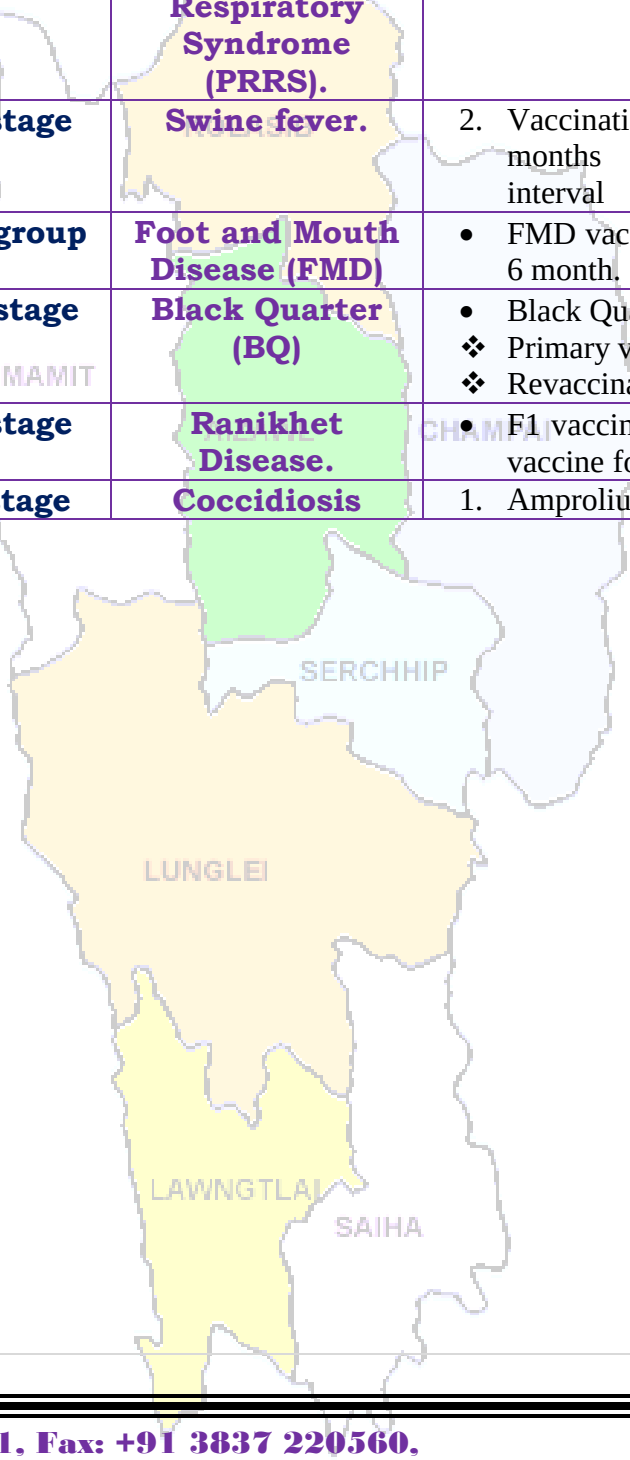
Pig	**All stages**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	**All age group**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat



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

District: Lawngtlai **Period:** 06 - 10 August, 2016

Bulletin No: - 625/2016/ Bulletin/Mizo **Date of issue:** 05th August, 2016

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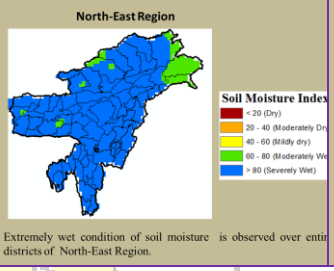
STATUS OF MONSOON- May 1-31, 2016 (*Percent of deviation from normal in parenthesis*)

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	6th August – 10th August, 2016 chhunga sik leh sa dinhmun tur tlangpui
	Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 33-34^{0}C a ni ang a. A vawh lai ber in 24-25^{0}C ni tura beisei a ni. RH san lai berin 94-97% leh a hniam lai berin 61-71% ni tur a rin niin. Thli hi darkar khatah 4-6 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. ***Weekly cumulative rainfall:*** **34.0mm**
NDVI for Mizoram	 Extremely wet condition of soil moisture is observed over entire districts of North-East Region.
	Extremely wet condition occur in all district of Mizoram

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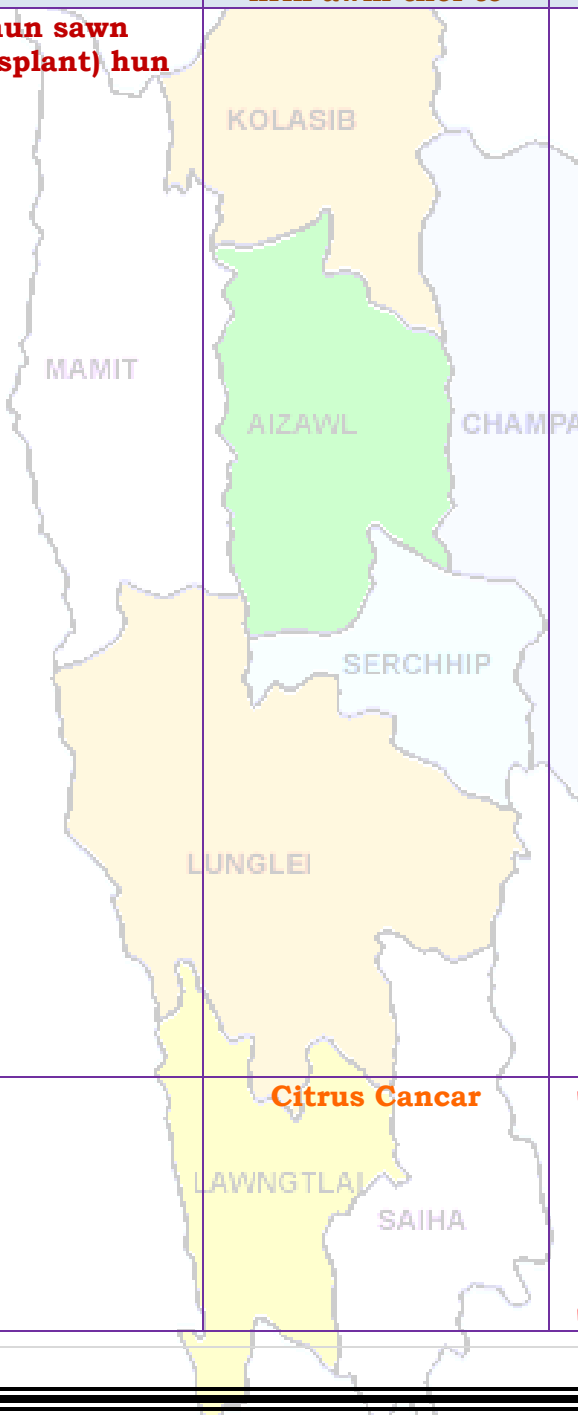
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	**Phun sawn (transplant) hun**		✦ Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmunah phun tur a ni. ✦ Chin hunbi bik a awm 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 chiah 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 leafminor and butterfly	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
Oil Palm	**A tet lai**		Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni. Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni. Oil palm tiak chu 2.5cm vela thuk in phum tur. Nitin tui pek tur. A tiak pakhat tan leitha SSP, MOP leh Mg_2SO_4 cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni. A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni. Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.
	Par a chhuah hma		A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni. Kung khatah 600:200:100 (NPK) hi hmun 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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			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		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	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**		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)	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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			✦ 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**		✦ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ✦ Tuthlawh hmangin hnim thlawh mai tur a ni. ✦ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni. ✦ A rah puitling ho chu seng nghal zel tur a ni.
		Fruit fly	✦ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrhsaiabe	**A par hma deuh atang a par thleng**		✦ 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**		✦ A bul vel tihfai that a, a zar

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

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			✦ Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Kharif rice	**A peng insiamtur zawng zawng insiam zawh hnu lawk**		✦ 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**		✦ 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**		✦ 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**		✦ 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**		✦ 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_2B 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: Lunglei **Period: 03 - 07 August, 2016**

Bulletin No: - 625/2016/ Bulletin/English **Date of issue: 02nd August, 2016**

Parameters	06.08.2016	07.08.2016	08.08.2016	09.08.2016	10.08.2016
Rainfall (mm)	4	0	0	12	3
Max Temp (ºC)	36	36	36	35	35
Min Temp (ºC)	26	25	26	26	25
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	97	98	99	99	98
Min RH (%)	74	59	72	65	68
Wind Speed (KmpH)	3	3	2	3	4
***Wind Direction**	E	E	E	E	E

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

STATUS OF MONSOON- 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

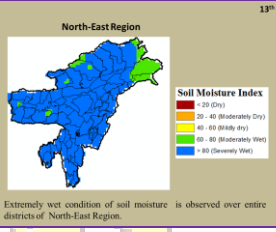
The temperature range for maximum and minimum were 22.2-28.5ºC and 17.9-20.6ºC respectively. Partially clear sky was observed. Wind direction is southeasterly. Maximum RH observed 81-97% & minimum of 54-81%. Rainfall recorded for the past three days is **18.30 mm. (Source-NICRA, AWS, Network)**

Weather forecast valid from 06th August, 2016 To 10th August, 2016.

There are chances of light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 35-36ºC and 25-26ºC. Maximum relative humidity is expected in the range of 97-99% and minimum may from 59-74%. Wind direction would be easterly with the wind speed of 3-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: **38.0 mm**

NDVI for Mizoram



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

Extremely wet condition occur in all district of Mizoram

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	**Transplanting stage**		▪ Citrus trees should be planted in a sunny and wind-protected area. ▪ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. ▪ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ▪ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. ▪ To plant citrus trees inside from seeds, remove the seeds from the desired fruit. Soak the seeds overnight in water and plant them ½ inch deep in moist potting soil. Cover the pot with a plastic bag or wrap and let it sit in a warm and sunny spot for a few weeks until the seeds start to grow. Then, remove the plastic but keep the pot near a warm and sunny window.
		Citrus cancar	▪ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ▪ Control minor infections limited to a small area of the tree by pruning away the affected parts. ▪ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	▪ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which

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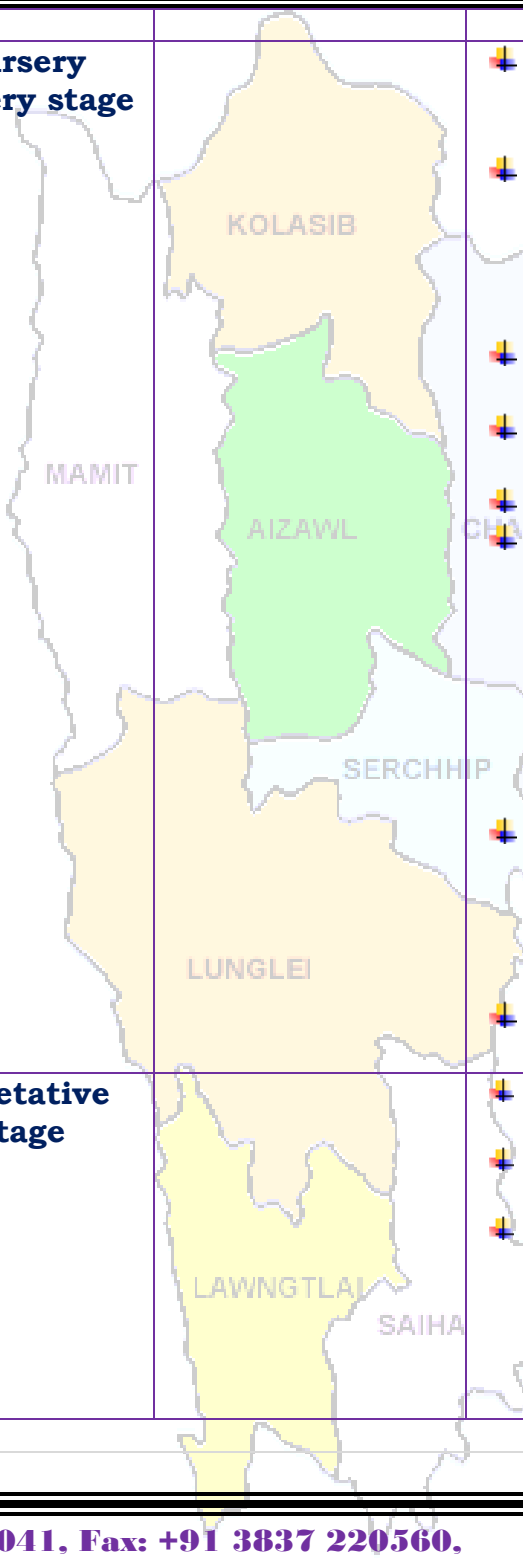
			coincides with I Fortnight of July.
Oil plam	**Nursery nursery stage**		✚ Smaller polybags of 250 guage and 23 x 13 cm size, preferably black are used for raising primary nurseries. ✚ These bags are filled with the potting mixture (Top soil, sand and well decomposed cattle manure in equal proportions) leaving one cm at the top of the bag. ✚ A healthy germinated sprout is placed at the centre at 2.5 cm depth. ✚ Plumule of the sprout facing upwards and the radicle downwards in the soil. ✚ The seedlings are to be watered daily. ✚ Application of a fertilizer mixture containing one part of ammonium sulphate, one part of super phosphate, one part of muriate of potash and two parts of magnesium sulphate is recommended at 15 g at one month stage, 45 g at three months stage and 60 g at six months stage per seedling. ✚ This has to be applied 6 - 8 cm away from seedlings during the first application, 10-12 cm away during second and 15-20 cm away during the third application in primary nursery. ✚ Surface soil is slightly scratched at the time of fertilizer application.
Oil plam	**Vegetative stage**		✚ Cleaning near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole

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			orchard. - Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Flowering to fruit formation stage**		- Clear near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
		Banana Rhizome weevil	- Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	- Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	**Maturity stage**		- Fruits usually mature in 120 to 140 days after flowering. - The fruit bunch is harvested when the ridges on their surface changes from angular to round. - The dried parts of flowers at the top of fruit drop off easily. - The top most leaf starts drying as the bunch matures. - Colour of fruits or fingers changes from dark green to pale green.
		Banana fruit caterpillar	- Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
		Banana thrips	- Covering bunches with polyethylene bags during fruit development provides a physical barrier to insect infestations.

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			✦ Spraying Imidachloroprid @ 1.5 ml/lt of rice to immature bunches and the surrounding soil can significantly reduce thrips damage to the fruit.
Passion Fruit (Kharif Season)	**Transplanting stage**		✦ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✦ A cutting should contain at least 3 buds and must be planted in sand beds. ✦ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✦ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Passion Fruit (Pre Kharif)	**Vegetative stage**		✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant. ✦ In dry spell apply mulch with grass. ✦ Trellises are in the north-south direction to minimize the shades during early morning and late evening. ✦ Young vines are trained to grow along the wire support of the trellises.
		Aphid and mite	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	**Harvest stage**		✦ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✦ Fresh fruits destined for the local market are plucked when almost ripe. ✦ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
		Rat damage	✦ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.

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			✦ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields. ✦ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
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.
Cucurbitaceous crop	**Harvesting stage**		✦ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✦ Weeding can be done by hoeing as and when necessary. ✦ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✦ Harvest all mature fruit.
		Fruit fly	✦ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	**Vegetative to flowering 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. ✦ Harvest all mature fruit.
		Okra leafroller	✦ Apply insecticide like imidacloprid 0.5 ml or

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			phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Cowpea	**Fruit initiation to harvest**		✦ Remove unwanted plant near base of the plant and cut dead branches. ✦ Earthing up soil at base of the plant along with split doses of fertilizer. ✦ Proper drainage is required to avoid water logging. ✦ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. ✦ Harvest all mature fruit.
Brinjal	**Fruit initiation to harvest**		✦ Remove unwanted plant near base of the plant and cut dead branches. ✦ Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. ✦ Mulching with black polythene film reduces weed growth, increases the crop growth. ✦ Split dose of fertilizer application @ 50kg/ha urea. ✦ Harvest all mature fruit.
		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/lt of water.
		Brinjal leaf beetle	✦ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	**Maximum tillering stage**		✦ Remove unwanted plant by hand weeding. ✦ Apply split dose of 25 %fertilizer(25 kg/ha urea). ✦ Proper drainage is required to avoid water logging. ✦ Use kono weeder 2-3 times for weed suppression in rows.
Pre kharif Rice	**Panicle Initiation stage**		✦ Remove unwanted plant by hand weeding. ✦ Apply split dose of fertilizer. ✦ Proper drainage is required to avoid water logging

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		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.
Pre kharif Maize	**Harvesting stage**		✚ Harvest all the matured and immature cobs. ✚ Keep all matured cobs for sundry. ✚ Hang all matured cobs in smoke.
Kharif Maize	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earting up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer	✚ Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
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-1in 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-1arge effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif pulses (Green gram, Black gram and Rajma)	**Flowering to pod formation stage**		✚ Remove unwanted plant from terrace and riser. ✚ Remove all infected pant and burn it.
		Aphid and bug	✚ Manually collect and destroy the insect. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.

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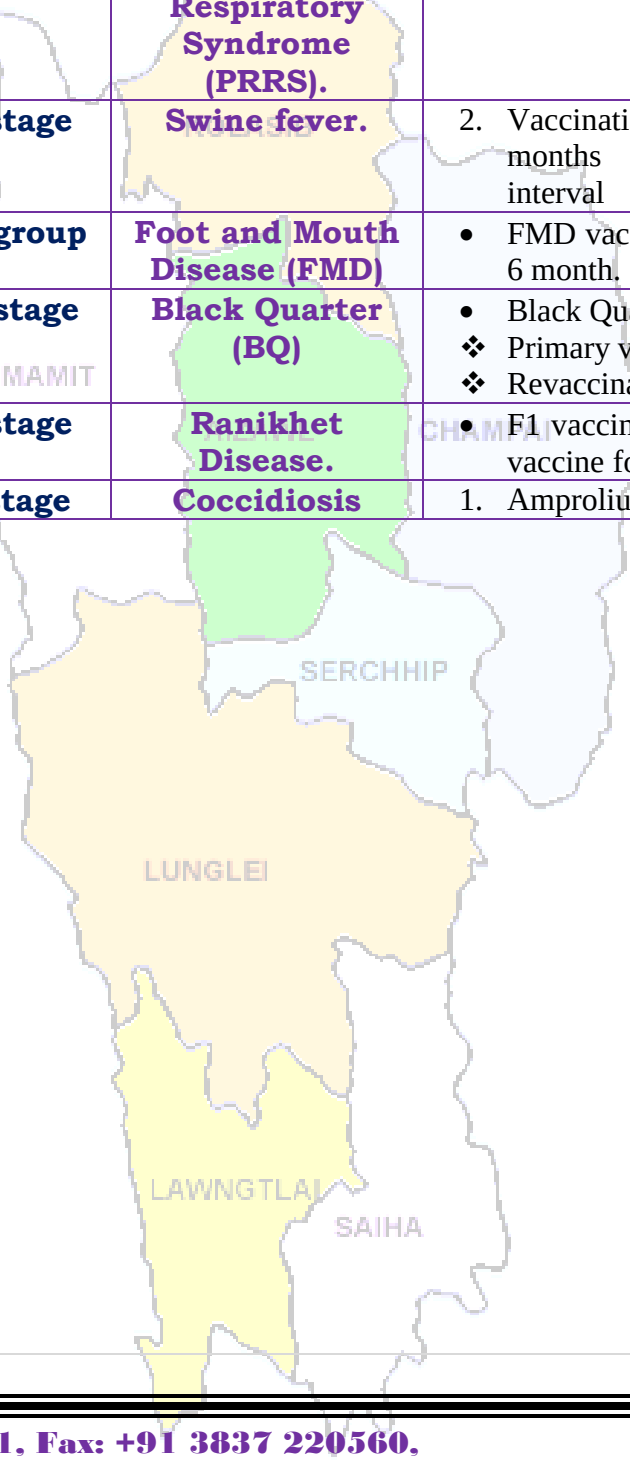
Pig	**All stages**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	**All age group**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat



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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Lunglei **Period: 06 - 10 August, 2016**

Bulletin No: - 625/2016/ Bulletin/Mizo **Date of issue: 05th August, 2016**

Parameters	06.08.2016	07.08.2016	08.08.2016	09.08.2016	10.08.2016
Rainfall (mm)	4	0	0	12	3
Max Temp (oC)	36	36	36	35	35
Min Temp (oC)	26	25	26	26	25
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	97	98	99	99	98
Min RH (%)	74	59	72	65	68
Wind Speed (KmpH)	3	3	2	3	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- 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

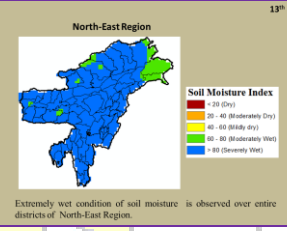
Khua a lum lai berin 22.2-28.5^{0}C leh a vawh lai berin 17.9-20.6^{0}C ani a. Chhum a tam tlangpui. Thli tleh dan kawng zawng chu chhim lam atangin chhak lamah a tleh (a thaw) a ni. Boruak uap zawng (relative humidity) san lai berin 81-97% a ni a, a hniam lai berin 54-81% ani. Ni 3 kal ta chhung a ruah tla zat chu **18.30 mm** a ni. **(Source-NICRA, AWS, Network)**

6th August – 10th August, 2016 chhunga sik leh sa dinhmun tur tlangpui

Ni 3 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 35-36^{0}C a ni ang a. A vawh lai ber in 25-26^{0}C ni tura beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 59-74% ni tur a rin niin. Thli hi darkar khatah 3-4 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.

Weekly cumulative rainfall: **38.0mm**

NDVI for Mizoram



Extremely wet condition occur in all district of Mizoram

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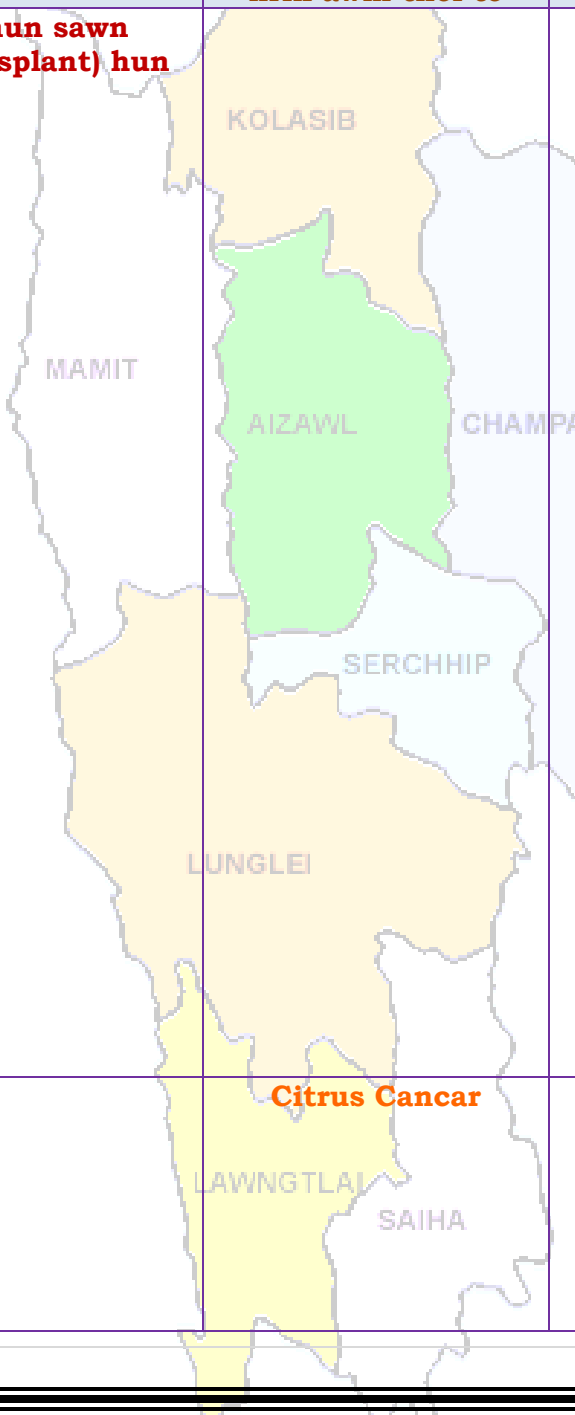
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	**Phun sawn (transplant) hun**		✦ Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmunah phun tur a ni. ✦ Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni. ✦ Kung lian deuh chi 12-25ft inkar hlat a chin tur a ni a, kung te deuh chi erawh 6-10ft inkar hlata chin tur a ni. Kung puitling a len poh leh an inkar tih hlat tur a ni. ✦ Tui tling insah vat theih lohna hmun (ruah sur zawha tui a tlin rei thinna hmun) ah chuan ser tiak chu hmun tih pawn chawp ah phun tur a ni. ✦ Ser tiak phun lo a, a chi a chin duh chuan ser rah duhthusam atangin a chi lak tur a ni. A chi chu zankhuain tuiah chiah 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 leafminor and butterfly	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
Oil Palm	**A tet lai**		Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni. Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni. Oil palm tiak chu 2.5cm vela thuk in phum tur. Nitin tui pek tur. A tiak pakhat tan leitha SSP, MOP leh Mg_2SO_4 cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni. A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni. Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.
	Par a chhuah hma		A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni. Kung khatah 600:200:100 (NPK) hi hmun 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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			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		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	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**		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)	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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			✦ 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**		✦ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ✦ Tuthlawh hmangin hnim thlawh mai tur a ni. ✦ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni. ✦ A rah puitling ho chu seng nghal zel tur a ni.
		Fruit fly	✦ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrhsaiabe	**A par hma deuh atang a par thleng**		✦ 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**		✦ A bul vel tihfai that a, a zar

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

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			✦ Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Kharif rice	**A peng insiamtur zawng zawng insiam zawh hnu lawk**		✦ 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**		✦ 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**		✦ 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**		✦ 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**		✦ 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_2B 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: Mamit **Period:** 06 - 10 August, 2016

Bulletin No: - 625/2016/ Bulletin/English **Date of issue:** 05th August, 2016

Parameters	06.08.2016	07.08.2016	08.08.2016	09.08.2016	10.08.2016
Rainfall (mm)	6	9	11	6	4
Max Temp (ºC)	35	34	33	33	33
Min Temp (ºC)	26	25	26	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	98	99	99	96
Min RH (%)	64	60	78	86	68
Wind Speed (KmpH)	3	2	2	2	4
*Wind Direction	E	E	S-E	S	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

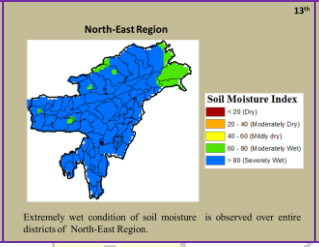
The temperature range for maximum and minimum were 27.2-31.4ºC and 19.3-23.8ºC respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 85-98% & minimum of 54-92%. Rainfall recorded for the past three days is **22.60 mm. (Source-mosdac.gov.in)**

Weather forecast valid from 06th August, 2016 To 10th August, 2016.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 33-35ºC and 25-26ºC. Maximum relative humidity is expected in the range of 96-99% and minimum may from 60-86%. Wind direction would be easterly to southeasterly to southerly and southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: **36.0 mm**

NDVI for Mizoram



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

Extremely wet condition occur in all district of Mizoram

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	**Transplanting stage**		▪ Citrus trees should be planted in a sunny and wind-protected area. ▪ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. ▪ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ▪ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. ▪ To plant citrus trees inside from seeds, remove the seeds from the desired fruit. Soak the seeds overnight in water and plant them ½ inch deep in moist potting soil. Cover the pot with a plastic bag or wrap and let it sit in a warm and sunny spot for a few weeks until the seeds start to grow. Then, remove the plastic but keep the pot near a warm and sunny window.
		Citrus cancar	▪ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ▪ Control minor infections limited to a small area of the tree by pruning away the affected parts. ▪ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	▪ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which

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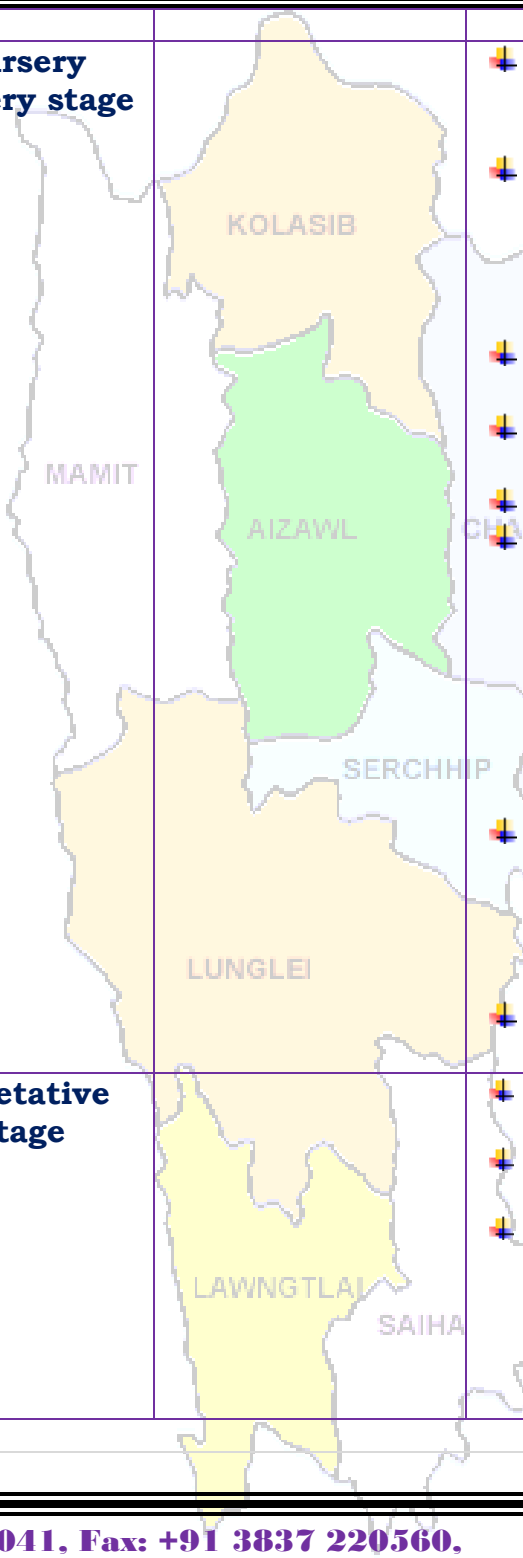
			coincides with I Fortnight of July.
Oil plam	**Nursery nursery stage**		✦ Smaller polybags of 250 guage and 23 x 13 cm size, preferably black are used for raising primary nurseries. ✦ These bags are filled with the potting mixture (Top soil, sand and well decomposed cattle manure in equal proportions) leaving one cm at the top of the bag. ✦ A healthy germinated sprout is placed at the centre at 2.5 cm depth. ✦ Plumule of the sprout facing upwards and the radicle downwards in the soil. ✦ The seedlings are to be watered daily. ✦ Application of a fertilizer mixture containing one part of ammonium sulphate, one part of super phosphate, one part of muriate of potash and two parts of magnesium sulphate is recommended at 15 g at one month stage, 45 g at three months stage and 60 g at six months stage per seedling. ✦ This has to be applied 6 - 8 cm away from seedlings during the first application, 10-12 cm away during second and 15-20 cm away during the third application in primary nursery. ✦ Surface soil is slightly scratched at the time of fertilizer application.
Oil plam	**Vegetative stage**		✦ Cleaning near base of the plant and cut unwanted branches. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt). ✦ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole

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			orchard. - Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Flowering to fruit formation stage**		- Clear near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
		Banana Rhizome weevil	- Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	- Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	**Maturity stage**		- Fruits usually mature in 120 to 140 days after flowering. - The fruit bunch is harvested when the ridges on their surface changes from angular to round. - The dried parts of flowers at the top of fruit drop off easily. - The top most leaf starts drying as the bunch matures. - Colour of fruits or fingers changes from dark green to pale green.
		Banana fruit caterpillar	- Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
		Banana thrips	- Covering bunches with polyethylene bags during fruit development provides a physical barrier to insect infestations.

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			✦ Spraying Imidachloroprid @ 1.5 ml/lt of rice to immature bunches and the surrounding soil can significantly reduce thrips damage to the fruit.
Passion Fruit (Kharif Season)	**Transplanting stage**		✦ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✦ A cutting should contain at least 3 buds and must be planted in sand beds. ✦ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✦ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Passion Fruit (Pre Kharif)	**Vegetative stage**		✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant. ✦ In dry spell apply mulch with grass. ✦ Trellises are in the north-south direction to minimize the shades during early morning and late evening. ✦ Young vines are trained to grow along the wire support of the trellises.
		Aphid and mite	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	**Harvest stage**		✦ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✦ Fresh fruits destined for the local market are plucked when almost ripe. ✦ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
		Rat damage	✦ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.

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			✦ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields. ✦ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
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.
Cucurbitaceous crop	**Harvesting stage**		✦ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✦ Weeding can be done by hoeing as and when necessary. ✦ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✦ Harvest all mature fruit.
		Fruit fly	✦ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	**Vegetative to flowering 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. ✦ Harvest all mature fruit.
		Okra leafroller	✦ Apply insecticide like imidacloprid 0.5 ml or

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			phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Cowpea	**Fruit initiation to harvest**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. ✚ Harvest all mature fruit.
Brinjal	**Fruit initiation to harvest**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. ✚ Mulching with black polythene film reduces weed growth, increases the crop growth. ✚ Split dose of fertilizer application @ 50kg/ha urea. ✚ Harvest all mature fruit.
		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/lt of water.
		Brinjal leaf beetle	✚ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	**Maximum tillering stage**		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of 25 %fertilizer(25 kg/ha urea). ✚ Proper drainage is required to avoid water logging. ✚ Use kono weeder 2-3 times for weed suppression in rows.
Pre kharif Rice	**Panicle Initiation stage**		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging

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		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.
Pre kharif Maize	**Harvesting stage**		✚ Harvest all the matured and immature cobs. ✚ Keep all matured cobs for sundry. ✚ Hang all matured cobs in smoke.
Kharif Maize	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earting up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer	✚ Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
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-1in 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-1arge effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif pulses (Green gram, Black gram and Rajma)	**Flowering to pod formation stage**		✚ Remove unwanted plant from terrace and riser. ✚ Remove all infected pant and burn it.
		Aphid and bug	✚ Manually collect and destroy the insect. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.

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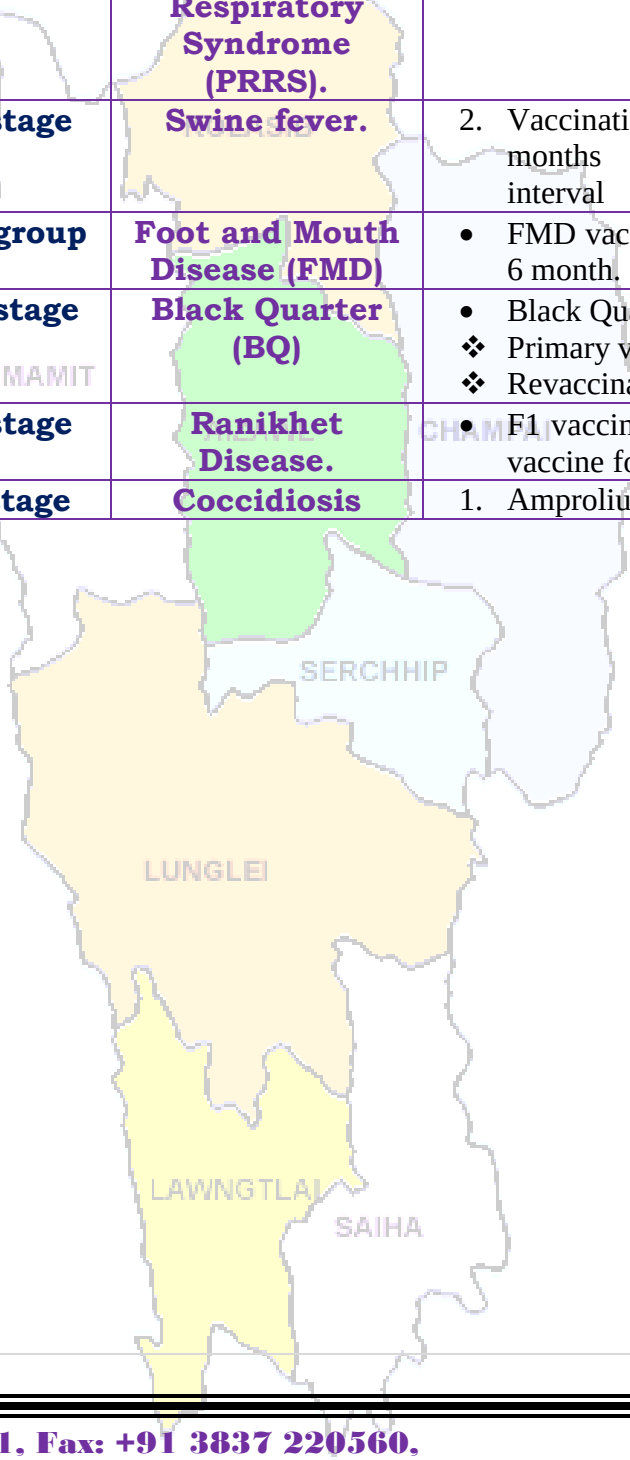
Pig	**All stages**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	**All age group**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat



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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Mamit **Period:** 06 - 10 August, 2016

Bulletin No: - 625/2016/ Bulletin/Mizo **Date of issue:** 05th August, 2016

Parameters	06.08.2016	07.08.2016	08.08.2016	09.08.2016	10.08.2016
Rainfall (mm)	6	9	11	6	4
Max Temp (oC)	35	34	33	33	33
Min Temp (oC)	26	25	26	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	98	99	99	96
Min RH (%)	64	60	78	86	68
Wind Speed (KmpH)	3	2	2	2	4
*Wind Direction	E	E	S-E	S	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

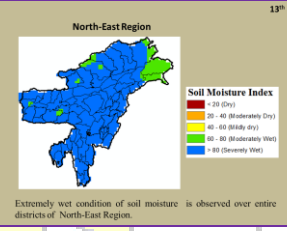
Khua a lum lai berin 27.2-31.4^{0}C leh a vawh lai berin 19.3-23.8^{0}C ani a. Chhum a tam tlangpui. Thli tleh dan kawng zawng chu chhim lam atangin chhak lamah a tleh (a thaw) a ni. Boruak uap zawng (relative humidity) san lai berin 85-98% a ni a, a hniam lai berin 54-92% ani. Ni 3 kal ta chhung a ruah tla zat chu **22.60 mm** a ni. **(Source- Mosdac.gov.in)**

6th August – 10th August, 2016 chhunga sik leh sa dinhmun tur tlangpui

Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 33-35^{0}C a ni ang a. A vawh lai ber in 25-26^{0}C ni tura beisei a ni. RH san lai berin 96-99% leh a hniam lai berin 60-86% 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.

Weekly cumulative rainfall: **36.0mm**

NDVI for Mizoram



Extremely wet condition occur in all district of Mizoram

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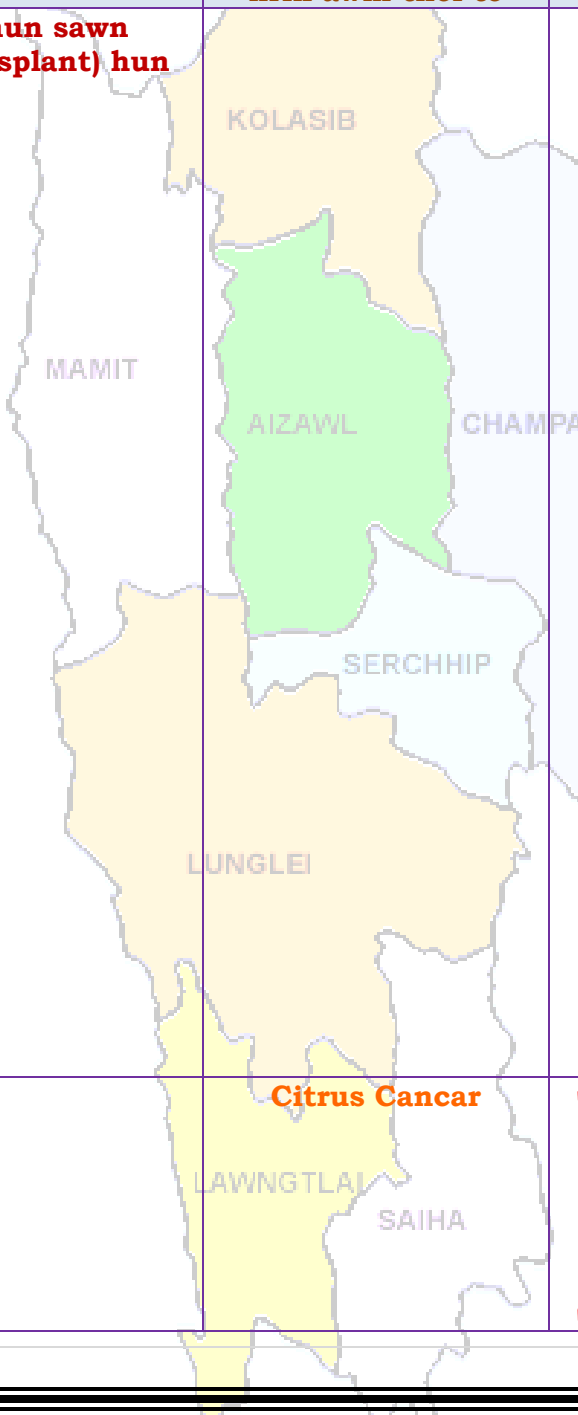
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	**Phun sawn (transplant) hun**		✦ Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmunah phun tur a ni. ✦ Chin hunbi bik a awm 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 chiah 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 leafminor and butterfly	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
Oil Palm	**A tet lai**		Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni. Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni. Oil palm tiak chu 2.5cm vela thuk in phum tur. Nitin tui pek tur. A tiak pakhat tan leitha SSP, MOP leh Mg_2SO_4 cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni. A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni. Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.
	Par a chhuah hma		A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni. Kung khatah 600:200:100 (NPK) hi hmun 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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			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		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	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**		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)	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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			✦ 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**		✦ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ✦ Tuthlawh hmangin hnim thlawh mai tur a ni. ✦ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni. ✦ A rah puitling ho chu seng nghal zel tur a ni.
		Fruit fly	✦ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrhsaiabe	**A par hma deuh atang a par thleng**		✦ 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**		✦ A bul vel tihfai that a, a zar

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

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			✦ Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Kharif rice	**A peng insiamtur zawng zawng insiam zawh hnu lawk**		✦ 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**		✦ 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**		✦ 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**		✦ 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**		✦ 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_2B 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: Saiha **Period: 06 - 10 August, 2016**

Bulletin No: - 625/2016/ Bulletin/English **Date of issue: 05th August, 2016**

Parameters	06.08.2016	07.08.2016	08.08.2016	09.08.2016	10.08.2016
Rainfall (mm)	0	0	5	10	4
Max Temp (ºC)	33	34	33	33	33
Min Temp (ºC)	24	24	24	25	24
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	97	98	99	99	98
Min RH (%)	74	59	72	65	68
Wind Speed (KmpH)	3	3	2	3	4
***Wind Direction**	E	E	E	E	E

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

STATUS OF MONSOON- 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

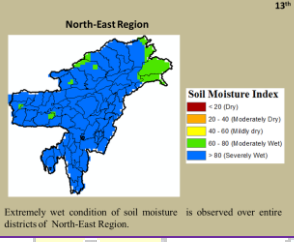
The temperature range for maximum and minimum were 19.2-23.4ºC and 12.7-16.1ºC respectively. Partially clear sky was observed. Wind direction is southeasterly. Maximum RH observed 81-94% & minimum of 58-79%. Rainfall recorded for the past three days is **28.60 mm. (Source-mosdac.gov.in)**

Weather forecast valid from 06th August, 2016 To 10th August, 2016.

There are chances of light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 33-34ºC and 24-25ºC. Maximum relative humidity is expected in the range of 97-99% and minimum may from 59-72%. Wind direction would be easterly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: **27.0 mm**

NDVI for Mizoram



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

Extremely wet condition occur in all district of Mizoram

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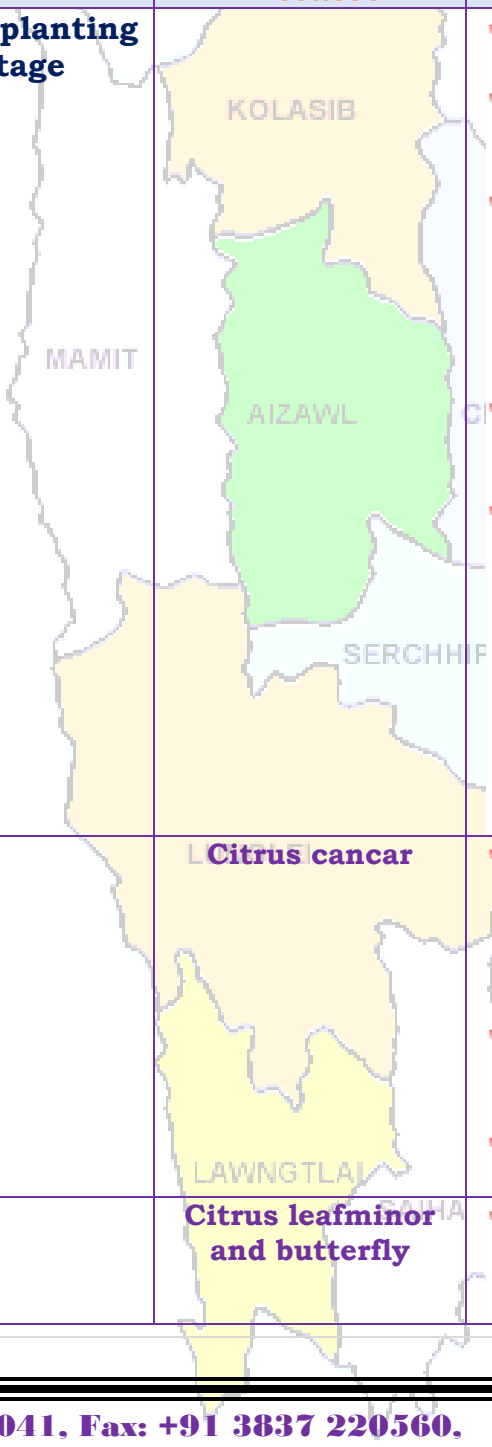
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	**Transplanting stage**		✦ Citrus trees should be planted in a sunny and wind-protected area. ✦ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. ✦ To plant citrus trees inside from seeds, remove the seeds from the desired fruit. Soak the seeds overnight in water and plant them ½ inch deep in moist potting soil. Cover the pot with a plastic bag or wrap and let it sit in a warm and sunny spot for a few weeks until the seeds start to grow. Then, remove the plastic but keep the pot near a warm and sunny window.
		Citrus cancar	✦ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ✦ Control minor infections limited to a small area of the tree by pruning away the affected parts. ✦ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which

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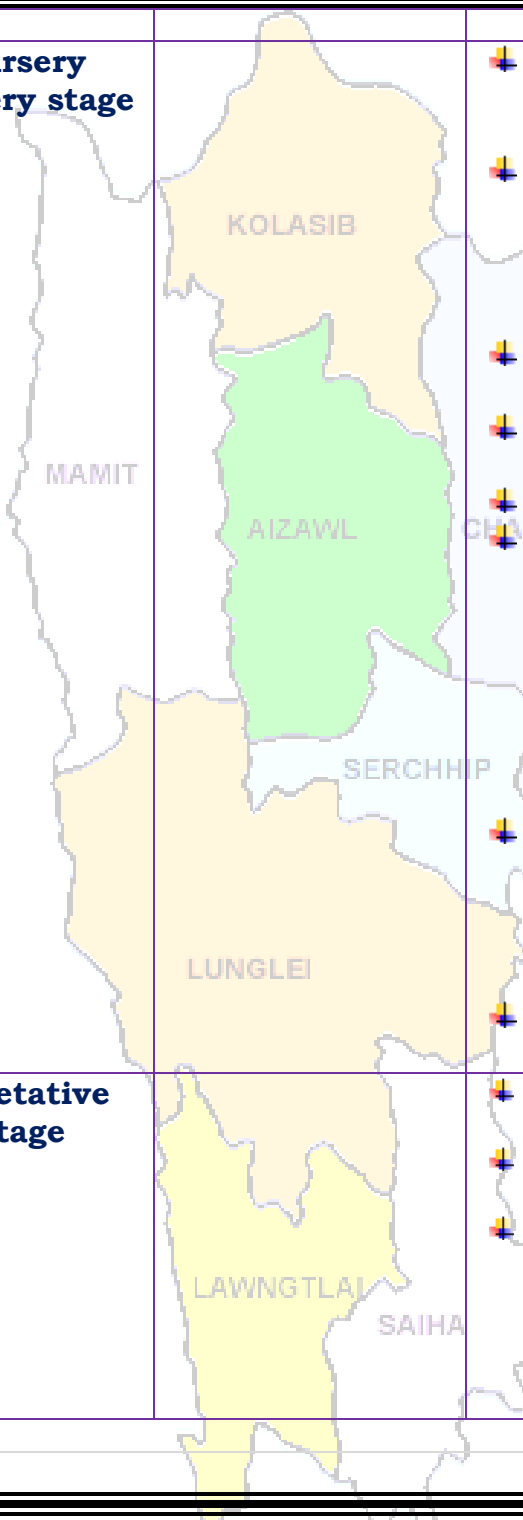
			coincides with I Fortnight of July.
Oil plam	**Nursery nursery stage**		✚ Smaller polybags of 250 guage and 23 x 13 cm size, preferably black are used for raising primary nurseries. ✚ These bags are filled with the potting mixture (Top soil, sand and well decomposed cattle manure in equal proportions) leaving one cm at the top of the bag. ✚ A healthy germinated sprout is placed at the centre at 2.5 cm depth. ✚ Plumule of the sprout facing upwards and the radicle downwards in the soil. ✚ The seedlings are to be watered daily. ✚ Application of a fertilizer mixture containing one part of ammonium sulphate, one part of super phosphate, one part of muriate of potash and two parts of magnesium sulphate is recommended at 15 g at one month stage, 45 g at three months stage and 60 g at six months stage per seedling. ✚ This has to be applied 6 - 8 cm away from seedlings during the first application, 10-12 cm away during second and 15-20 cm away during the third application in primary nursery. ✚ Surface soil is slightly scratched at the time of fertilizer application.
Oil plam	**Vegetative stage**		✚ Cleaning near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole

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			orchard. - Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Flowering to fruit formation stage**		- Clear near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
		Banana Rhizome weevil	- Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	- Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	**Maturity stage**		- Fruits usually mature in 120 to 140 days after flowering. - The fruit bunch is harvested when the ridges on their surface changes from angular to round. - The dried parts of flowers at the top of fruit drop off easily. - The top most leaf starts drying as the bunch matures. - Colour of fruits or fingers changes from dark green to pale green.
		Banana fruit caterpillar	- Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
		Banana thrips	- Covering bunches with polyethylene bags during fruit development provides a physical barrier to insect infestations.

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			✦ Spraying Imidachloroprid @ 1.5 ml/lt of rice to immature bunches and the surrounding soil can significantly reduce thrips damage to the fruit.
Passion Fruit (Kharif Season)	**Transplanting stage**		✦ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✦ A cutting should contain at least 3 buds and must be planted in sand beds. ✦ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✦ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Passion Fruit (Pre Kharif)	**Vegetative stage**		✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant. ✦ In dry spell apply mulch with grass. ✦ Trellises are in the north-south direction to minimize the shades during early morning and late evening. ✦ Young vines are trained to grow along the wire support of the trellises.
		Aphid and mite	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	**Harvest stage**		✦ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✦ Fresh fruits destined for the local market are plucked when almost ripe. ✦ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
		Rat damage	✦ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.

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			✦ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields. ✦ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
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.
Cucurbitaceous crop	**Harvesting stage**		✦ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✦ Weeding can be done by hoeing as and when necessary. ✦ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✦ Harvest all mature fruit.
		Fruit fly	✦ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	**Vegetative to flowering 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. ✦ Harvest all mature fruit.
		Okra leafroller	✦ Apply insecticide like imidacloprid 0.5 ml or

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			phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Cowpea	**Fruit initiation to harvest**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. ✚ Harvest all mature fruit.
Brinjal	**Fruit initiation to harvest**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. ✚ Mulching with black polythene film reduces weed growth, increases the crop growth. ✚ Split dose of fertilizer application @ 50kg/ha urea. ✚ Harvest all mature fruit.
		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/lt of water.
		Brinjal leaf beetle	✚ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	**Maximum tillering stage**		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of 25 %fertilizer(25 kg/ha urea). ✚ Proper drainage is required to avoid water logging. ✚ Use kono weeder 2-3 times for weed suppression in rows.
Pre kharif Rice	**Panicle Initiation stage**		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging

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		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.
Pre kharif Maize	**Harvesting stage**		✚ Harvest all the matured and immature cobs. ✚ Keep all matured cobs for sundry. ✚ Hang all matured cobs in smoke.
Kharif Maize	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earting up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer	✚ Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
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-1in 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-1arge effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif pulses (Green gram, Black gram and Rajma)	**Flowering to pod formation stage**		✚ Remove unwanted plant from terrace and riser. ✚ Remove all infected pant and burn it.
		Aphid and bug	✚ Manually collect and destroy the insect. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.

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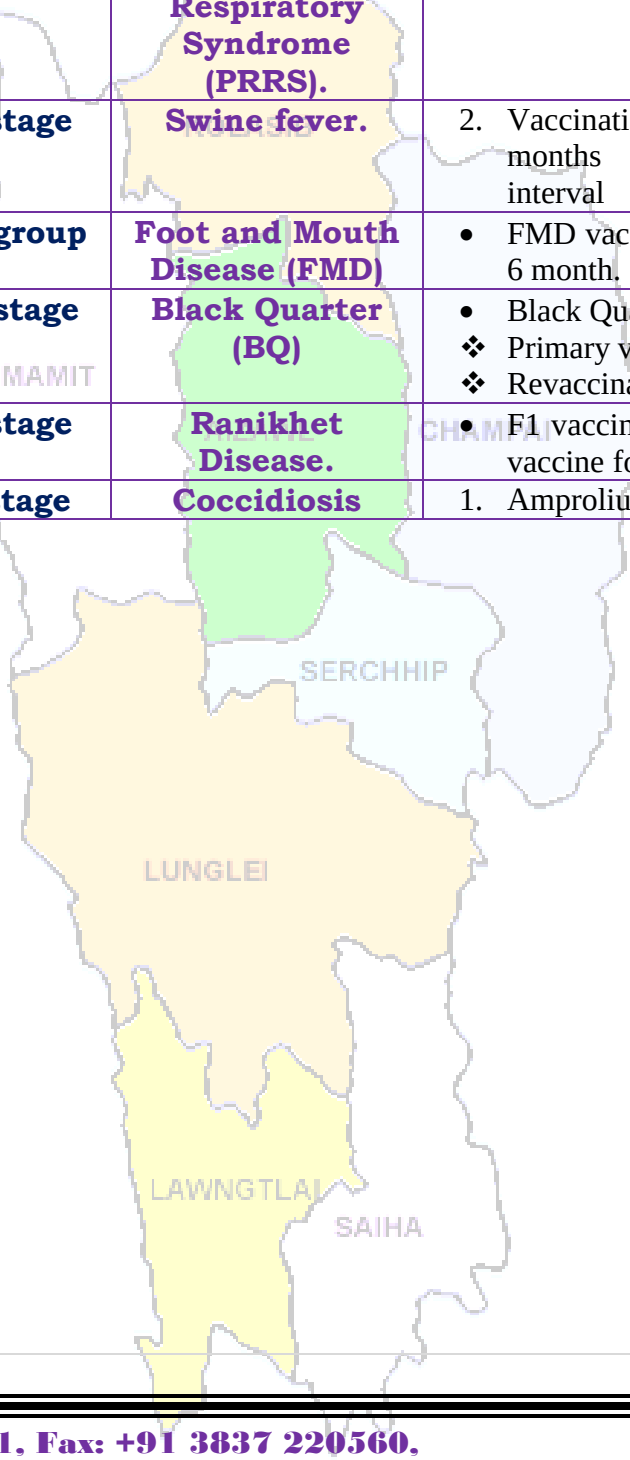
Pig	**All stages**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	**All age group**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat



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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Saiha **Period:** 06 - 10 August, 2016

Bulletin No: - 625/2016/ Bulletin/Mizo **Date of issue:** 05th August, 2016

Parameters	06.08.2016	07.08.2016	08.08.2016	09.08.2016	10.08.2016
Rainfall (mm)	0	0	5	10	4
Max Temp (oC)	33	34	33	33	33
Min Temp (oC)	24	24	24	25	24
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	97	98	99	99	98
Min RH (%)	74	59	72	65	68
Wind Speed (KmpH)	3	3	2	3	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- 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

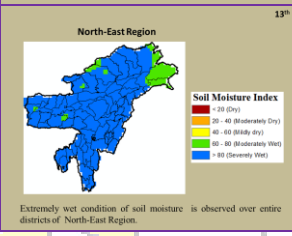
Khua a lum lai berin 19.2-23.4^{0}C leh a vawh lai berin 12.7-16.1^{0}C ani a. Chhum a tam tlangpui. Thli tleh dan kawng zawng chu chhim lam atangin chhak lamah a tleh (a thaw) a ni. Boruak uap zawng (relative humidity) san lai berin 81-94% a ni a, a hniam lai berin 58-79% ani. Ni 3 kal ta chhung a ruah tla zat chu **28.60 mm** a ni. **(Source- Mosdac.gov.in)**

6th August – 10th August, 2016 chhunga sik leh sa dinhmun tur tlangpui

Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 33-34^{0}C a ni ang a. A vawh lai ber in 24-25^{0}C ni tura beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 59-72% ni tur a rin niin. Thli hi darkar khatah 2-3 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.

Weekly cumulative rainfall: **27.0mm**

NDVI for Mizoram



Extremely wet condition occur in all district of Mizoram

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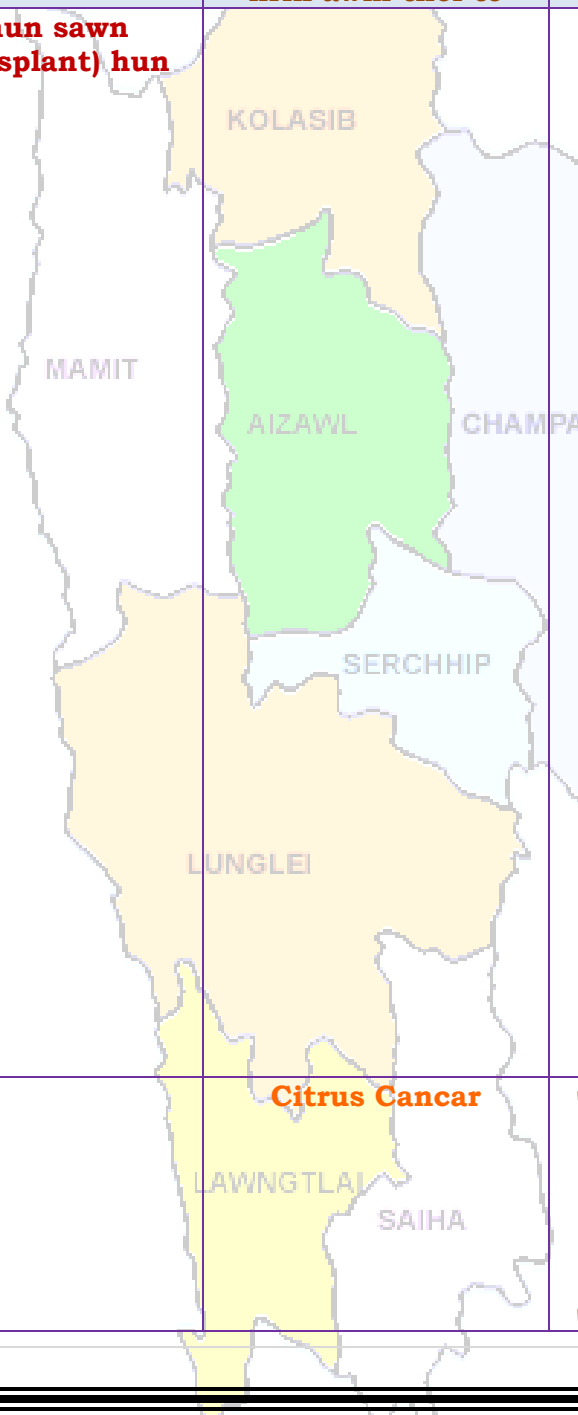
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	**Phun sawn (transplant) hun**		✦ Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmunah phun tur a ni. ✦ Chin hunbi bik a awm 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 chiah 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 leafminor and butterfly	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
Oil Palm	**A tet lai**		Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni. Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni. Oil palm tiak chu 2.5cm vela thuk in phum tur. Nitin tui pek tur. A tiak pakhat tan leitha SSP, MOP leh Mg_2SO_4 cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni. A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni. Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.
	Par a chhuah hma		A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni. Kung khatah 600:200:100 (NPK) hi hmun 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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			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		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	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**		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)	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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			✦ 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**		✦ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ✦ Tuthlawh hmangin hnim thlawh mai tur a ni. ✦ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni. ✦ A rah puitling ho chu seng nghal zel tur a ni.
		Fruit fly	✦ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrhsaiabe	**A par hma deuh atang a par thleng**		✦ 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**		✦ A bul vel tihfai that a, a zar

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

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			✦ Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Kharif rice	**A peng insiamtur zawng zawng insiam zawh hnu lawk**		✦ 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**		✦ 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**		✦ 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**		✦ 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**		✦ 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_2B 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: Serchhip **Period: 06 - 10 August, 2016**

Bulletin No: - 625/2016/ Bulletin/English **Date of issue: 05th August, 2016**

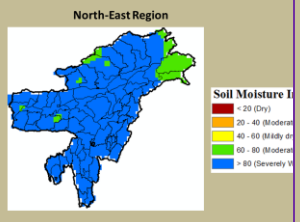
Parameters	06.08.2016	07.08.2016	08.08.2016	09.08.2016	10.08.2016
Rainfall (mm)	5	5	5	16	3
Max Temp (ºC)	36	36	35	34	34
Min Temp (ºC)	26	25	26	26	25
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	100	100	100	100
Min RH (%)	73	55	80	70	70
Wind Speed (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	Weather forecast valid from 06th August, 2016 To 10th August, 2016.
	There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 34-36ºC and 25-26ºC. Maximum relative humidity is expected in the range of 99-100% and minimum may from 55-80%. Wind direction would be easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **34.0 mm**

NDVI for Mizoram		
	 Extremely wet condition of soil moisture is observed over districts of North-East Region.	Extremely wet condition occur in all district of Mizoram

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	**Transplanting stage**		▪ Citrus trees should be planted in a sunny and wind-protected area. ▪ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. ▪ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ▪ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. ▪ To plant citrus trees inside from seeds, remove the seeds from the desired fruit. Soak the seeds overnight in water and plant them ½ inch deep in moist potting soil. Cover the pot with a plastic bag or wrap and let it sit in a warm and sunny spot for a few weeks until the seeds start to grow. Then, remove the plastic but keep the pot near a warm and sunny window.
		Citrus cancar	▪ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ▪ Control minor infections limited to a small area of the tree by pruning away the affected parts. ▪ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	▪ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which

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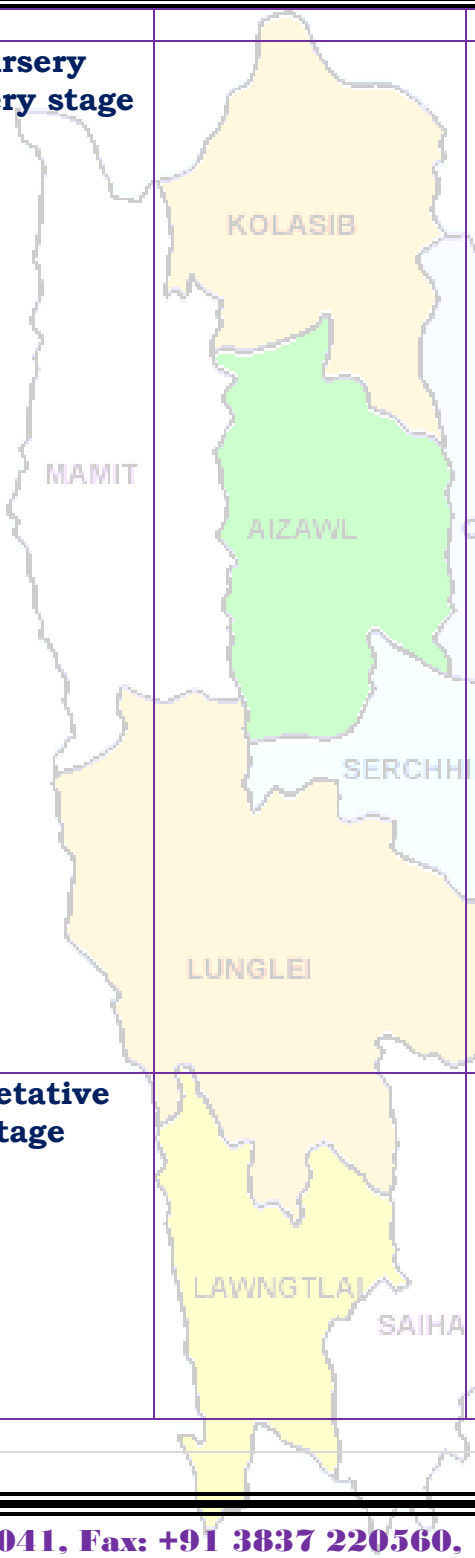
			coincides with I Fortnight of July.
Oil plam	**Nursery nursery stage**		✦ Smaller polybags of 250 guage and 23 x 13 cm size, preferably black are used for raising primary nurseries. ✦ These bags are filled with the potting mixture (Top soil, sand and well decomposed cattle manure in equal proportions) leaving one cm at the top of the bag. ✦ A healthy germinated sprout is placed at the centre at 2.5 cm depth. ✦ Plumule of the sprout facing upwards and the radicle downwards in the soil. ✦ The seedlings are to be watered daily. ✦ Application of a fertilizer mixture containing one part of ammonium sulphate, one part of super phosphate, one part of muriate of potash and two parts of magnesium sulphate is recommended at 15 g at one month stage, 45 g at three months stage and 60 g at six months stage per seedling. ✦ This has to be applied 6 - 8 cm away from seedlings during the first application, 10-12 cm away during second and 15-20 cm away during the third application in primary nursery. ✦ Surface soil is slightly scratched at the time of fertilizer application.
Oil plam	**Vegetative stage**		✦ Cleaning near base of the plant and cut unwanted branches. ✦ Application of split dose of fertilizer 600: 200:100 (g/pt). ✦ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole

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			orchard. - Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Flowering to fruit formation stage**		- Clear near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
		Banana Rhizome weevil	- Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	- Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	**Maturity stage**		- Fruits usually mature in 120 to 140 days after flowering. - The fruit bunch is harvested when the ridges on their surface changes from angular to round. - The dried parts of flowers at the top of fruit drop off easily. - The top most leaf starts drying as the bunch matures. - Colour of fruits or fingers changes from dark green to pale green.
		Banana fruit caterpillar	- Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
		Banana thrips	- Covering bunches with polyethylene bags during fruit development provides a physical barrier to insect infestations.

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			✦ Spraying Imidachloroprid @ 1.5 ml/lt of rice to immature bunches and the surrounding soil can significantly reduce thrips damage to the fruit.
Passion Fruit (Kharif Season)	**Transplanting stage**		✦ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✦ A cutting should contain at least 3 buds and must be planted in sand beds. ✦ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✦ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Passion Fruit (Pre Kharif)	**Vegetative stage**		✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant. ✦ In dry spell apply mulch with grass. ✦ Trellises are in the north-south direction to minimize the shades during early morning and late evening. ✦ Young vines are trained to grow along the wire support of the trellises.
		Aphid and mite	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	**Harvest stage**		✦ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✦ Fresh fruits destined for the local market are plucked when almost ripe. ✦ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
		Rat damage	✦ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.

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			✦ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields. ✦ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
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.
Cucurbitaceous crop	**Harvesting stage**		✦ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✦ Weeding can be done by hoeing as and when necessary. ✦ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✦ Harvest all mature fruit.
		Fruit fly	✦ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	**Vegetative to flowering 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. ✦ Harvest all mature fruit.
		Okra leafroller	✦ Apply insecticide like imidacloprid 0.5 ml or

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			phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Cowpea	**Fruit initiation to harvest**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. ✚ Harvest all mature fruit.
Brinjal	**Fruit initiation to harvest**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. ✚ Mulching with black polythene film reduces weed growth, increases the crop growth. ✚ Split dose of fertilizer application @ 50kg/ha urea. ✚ Harvest all mature fruit.
		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/lt of water.
		Brinjal leaf beetle	✚ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	**Maximum tillering stage**		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of 25 %fertilizer(25 kg/ha urea). ✚ Proper drainage is required to avoid water logging. ✚ Use kono weeder 2-3 times for weed suppression in rows.
Pre kharif Rice	**Panicle Initiation stage**		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging

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		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.
Pre kharif Maize	**Harvesting stage**		✚ Harvest all the matured and immature cobs. ✚ Keep all matured cobs for sundry. ✚ Hang all matured cobs in smoke.
Kharif Maize	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earting up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer	✚ Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
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-1in 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-1arge effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif pulses (Green gram, Black gram and Rajma)	**Flowering to pod formation stage**		✚ Remove unwanted plant from terrace and riser. ✚ Remove all infected pant and burn it.
		Aphid and bug	✚ Manually collect and destroy the insect. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.

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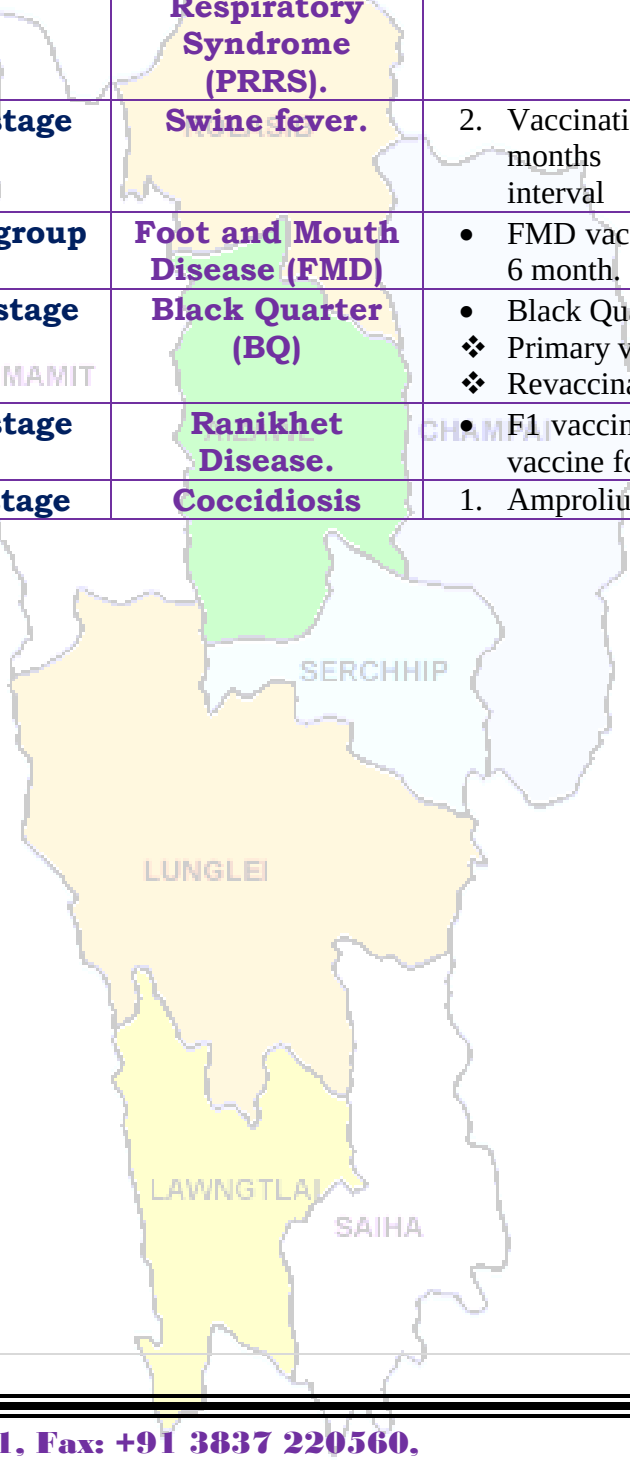
Pig	**All stages**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	**All age group**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat



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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Serchhip **Period:** 06 - 10 August, 2016

Bulletin No: - 625/2016/ Bulletin/Mizo **Date of issue:** 05th August, 2016

Parameters	06.08.2016	07.08.2016	08.08.2016	09.08.2016	10.08.2016
Rainfall (mm)	5	5	5	16	3
Max Temp (oC)	36	36	35	34	34
Min Temp (oC)	26	25	26	26	25
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	100	100	100	100
Min RH (%)	73	55	80	70	70
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	E	E	E

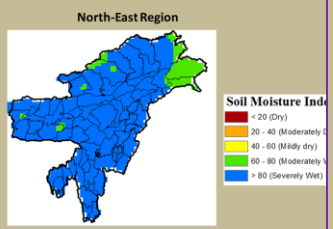
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

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	6th August – 10th August, 2016 chhunga sik leh sa dinhmun tur tlangpui
	Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 34-36^{0}C a ni ang a. A vawh lai ber in 25-26^{0}C ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 55-80% 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. ***Weekly cumulative rainfall:*** **34.0mm**

NDVI for Mizoram



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

Extremely wet condition occur in all district of Mizoram

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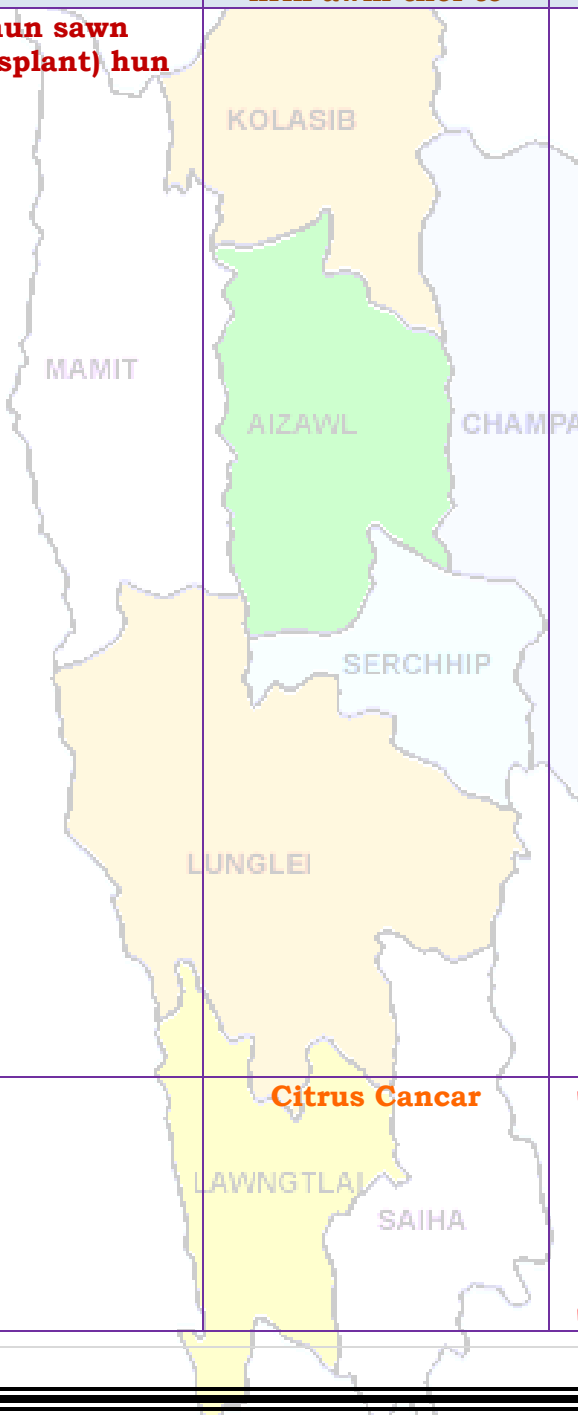
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	**Phun sawn (transplant) hun**		✦ Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmunah phun tur a ni. ✦ Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni. ✦ Kung lian deuh chi 12-25ft inkar hlat a chin tur a ni a, kung te deuh chi erawh 6-10ft inkar hlata chin tur a ni. Kung puitling a len poh leh an inkar tih hlat tur a ni. ✦ Tui tling insah vat theih lohna hmun (ruah sur zawha tui a tlin rei thinna hmun) ah chuan ser tiak chu hmun tih pawn chawp ah phun tur a ni. ✦ Ser tiak phun lo a, a chi a chin duh chuan ser rah duhthusam atangin a chi lak tur a ni. A chi chu zankhuain tuiah chiah 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 leafminor and butterfly	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
Oil Palm	**A tet lai**		Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni. Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni. Oil palm tiak chu 2.5cm vela thuk in phum tur. Nitin tui pek tur. A tiak pakhat tan leitha SSP, MOP leh Mg_2SO_4 cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni. A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni. Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.
	Par a chhuah hma		A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni. Kung khatah 600:200:100 (NPK) hi hmun 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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			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		- 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	- 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**		- 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)	- 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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			✦ 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**		✦ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ✦ Tuthlawh hmangin hnim thlawh mai tur a ni. ✦ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni. ✦ A rah puitling ho chu seng nghal zel tur a ni.
		Fruit fly	✦ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrhsaiabe	**A par hma deuh atang a par thleng**		✦ 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**		✦ A bul vel tihfai that a, a zar

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

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			✦ Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Kharif rice	**A peng insiamtur zawng zawng insiam zawh hnu lawk**		✦ 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**		✦ 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**		✦ 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**		✦ 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**		✦ 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_2B 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: Aizawl **Period: 06 - 10 August, 2016**

Bulletin No: - 625/2016/ Bulletin/English **Date of issue: 05th August, 2016**

Parameters	06.08.2016	07.08.2016	08.08.2016	09.08.2016	10.08.2016
Rainfall (mm)	11	9	16	12	4
Max Temp (ºC)	34	35	34	34	34
Min Temp (ºC)	26	26	27	27	26
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	100	98
Min RH (%)	71	64	86	86	72
Wind Speed (KmpH)	2	2	2	2	2
***Wind Direction**	N-E	E	E	S	E

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

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

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

Weather summary of the past three days

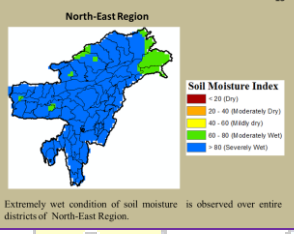
The temperature range for maximum and minimum were 21.8-23.5ºC and 18.6-18.9ºC respectively. Partially clear sky was observed. Wind direction is southeasterly. Maximum RH observed 84-97% & minimum of 58-89%. Rainfall recorded for the past three days is **18.30 mm. (Source-mosdac.gov.in)**

Weather forecast valid from 06th August, 2016 To 10th August, 2016.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 34-35ºC and 26-27ºC. Maximum relative humidity is expected in the range of 98-100% and minimum may from 64-86%. Wind direction would be northeasterly to easterly to southerly and easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: **52.0 mm**

NDVI for Mizoram



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

Extremely wet condition occur in all district of Mizoram

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	**Transplanting stage**		▪ Citrus trees should be planted in a sunny and wind-protected area. ▪ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants. ▪ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ▪ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. ▪ To plant citrus trees inside from seeds, remove the seeds from the desired fruit. Soak the seeds overnight in water and plant them ½ inch deep in moist potting soil. Cover the pot with a plastic bag or wrap and let it sit in a warm and sunny spot for a few weeks until the seeds start to grow. Then, remove the plastic but keep the pot near a warm and sunny window.
		Citrus cancar	▪ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ▪ Control minor infections limited to a small area of the tree by pruning away the affected parts. ▪ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	▪ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which

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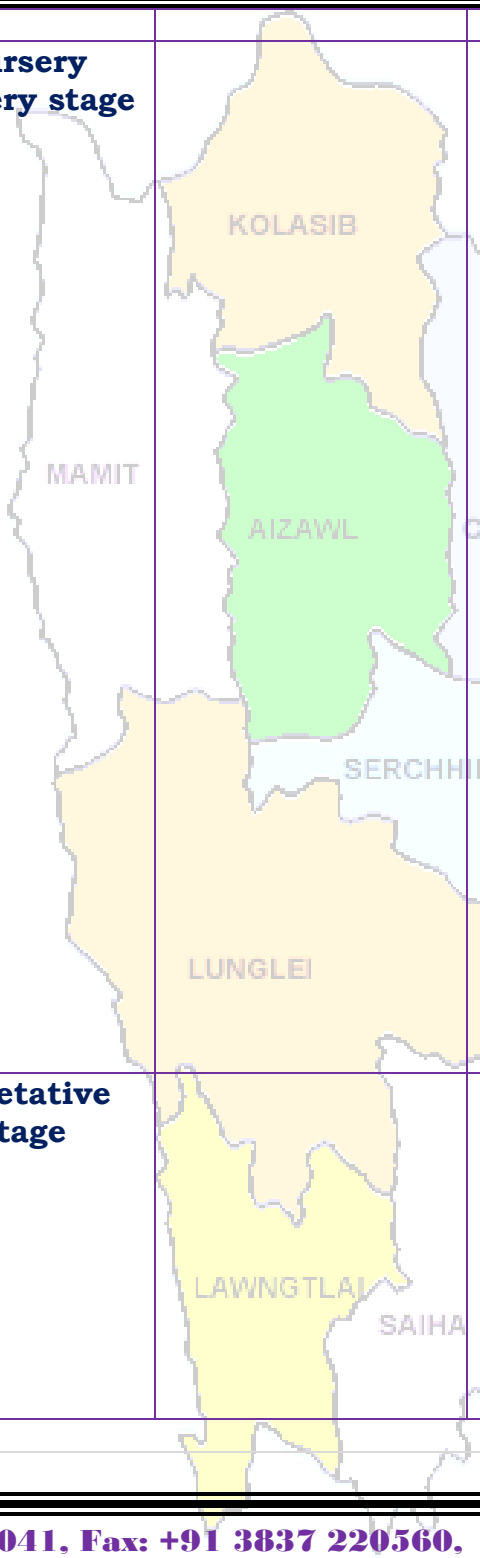
			coincides with I Fortnight of July.
Oil plam	**Nursery nursery stage**		✚ Smaller polybags of 250 guage and 23 x 13 cm size, preferably black are used for raising primary nurseries. ✚ These bags are filled with the potting mixture (Top soil, sand and well decomposed cattle manure in equal proportions) leaving one cm at the top of the bag. ✚ A healthy germinated sprout is placed at the centre at 2.5 cm depth. ✚ Plumule of the sprout facing upwards and the radicle downwards in the soil. ✚ The seedlings are to be watered daily. ✚ Application of a fertilizer mixture containing one part of ammonium sulphate, one part of super phosphate, one part of muriate of potash and two parts of magnesium sulphate is recommended at 15 g at one month stage, 45 g at three months stage and 60 g at six months stage per seedling. ✚ This has to be applied 6 - 8 cm away from seedlings during the first application, 10-12 cm away during second and 15-20 cm away during the third application in primary nursery. ✚ Surface soil is slightly scratched at the time of fertilizer application.
Oil plam	**Vegetative stage**		✚ Cleaning near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt). ✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole

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			orchard. - Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Flowering to fruit formation stage**		- Clear near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
		Banana Rhizome weevil	- Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	- Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Banana	**Maturity stage**		- Fruits usually mature in 120 to 140 days after flowering. - The fruit bunch is harvested when the ridges on their surface changes from angular to round. - The dried parts of flowers at the top of fruit drop off easily. - The top most leaf starts drying as the bunch matures. - Colour of fruits or fingers changes from dark green to pale green.
		Banana fruit caterpillar	- Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
		Banana thrips	- Covering bunches with polyethylene bags during fruit development provides a physical barrier to insect infestations.

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			✦ Spraying Imidachloroprid @ 1.5 ml/lt of rice to immature bunches and the surrounding soil can significantly reduce thrips damage to the fruit.
Passion Fruit (Kharif Season)	**Transplanting stage**		✦ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✦ A cutting should contain at least 3 buds and must be planted in sand beds. ✦ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✦ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Passion Fruit (Pre Kharif)	**Vegetative stage**		✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant. ✦ In dry spell apply mulch with grass. ✦ Trellises are in the north-south direction to minimize the shades during early morning and late evening. ✦ Young vines are trained to grow along the wire support of the trellises.
		Aphid and mite	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	**Harvest stage**		✦ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✦ Fresh fruits destined for the local market are plucked when almost ripe. ✦ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).
		Rat damage	✦ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.

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			✦ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields. ✦ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
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.
Cucurbitaceous crop	**Harvesting stage**		✦ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application ✦ Weeding can be done by hoeing as and when necessary. ✦ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches. ✦ Harvest all mature fruit.
		Fruit fly	✦ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	**Vegetative to flowering 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. ✦ Harvest all mature fruit.
		Okra leafroller	✦ Apply insecticide like imidacloprid 0.5 ml or

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			phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Cowpea	**Fruit initiation to harvest**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. ✚ Harvest all mature fruit.
Brinjal	**Fruit initiation to harvest**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. ✚ Mulching with black polythene film reduces weed growth, increases the crop growth. ✚ Split dose of fertilizer application @ 50kg/ha urea. ✚ Harvest all mature fruit.
		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/lt of water.
		Brinjal leaf beetle	✚ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	**Maximum tillering stage**		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of 25 %fertilizer(25 kg/ha urea). ✚ Proper drainage is required to avoid water logging. ✚ Use kono weeder 2-3 times for weed suppression in rows.
Pre kharif Rice	**Panicle Initiation stage**		✚ Remove unwanted plant by hand weeding. ✚ Apply split dose of fertilizer. ✚ Proper drainage is required to avoid water logging

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		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.
Pre kharif Maize	**Harvesting stage**		✚ Harvest all the matured and immature cobs. ✚ Keep all matured cobs for sundry. ✚ Hang all matured cobs in smoke.
Kharif Maize	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earting up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer	✚ Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
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-1in 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-1arge effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif pulses (Green gram, Black gram and Rajma)	**Flowering to pod formation stage**		✚ Remove unwanted plant from terrace and riser. ✚ Remove all infected pant and burn it.
		Aphid and bug	✚ Manually collect and destroy the insect. ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.

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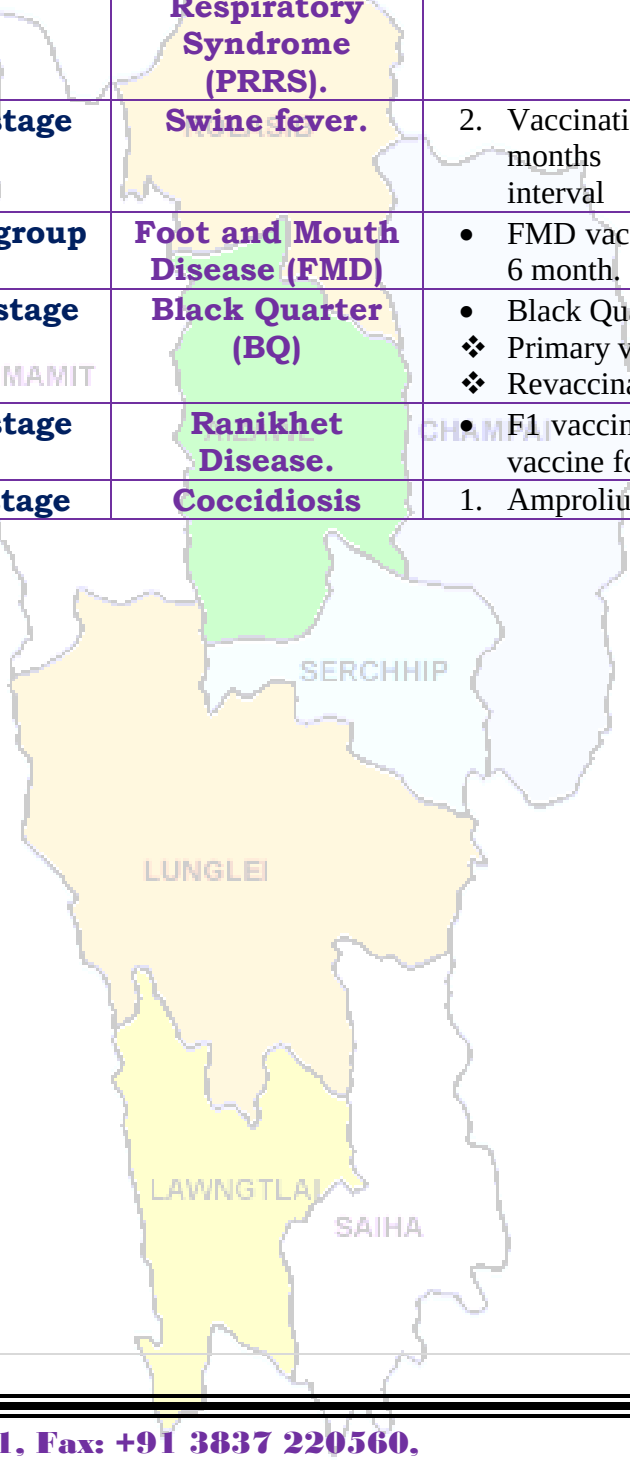
Pig	**All stages**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	**All age group**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat



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

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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)
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Ni thum kalta sik leh sa dinhmun tlangpui

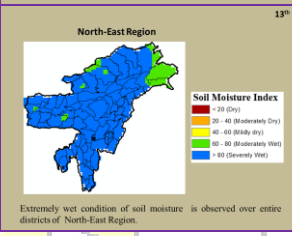
Khua a lum lai berin 21.8-23.5^{0}C leh a vawh lai berin 18.6-18.9^{0}C ani a. Chhum a tam tlangpui. Thli tleh dan kawng zawng chu chhim lam atangin chhak lamah a tleh (a thaw) a ni. Boruak uap zawng (relative humidity) san lai berin 84-97% a ni a, a hniam lai berin 58-89% ani. Ni 3 kal ta chhung a ruah tla zat chu **18.30 mm** a ni. **(Source- Mosdac.gov.in)**

6th August – 10th August, 2016 chhunga sik leh sa dinhmun tur tlangpui

Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 34-35^{0}C a ni ang a. A vawh lai ber in 26-27^{0}C ni tura beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 64-86% 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.

Weekly cumulative rainfall: **52.0mm**

NDVI for Mizoram



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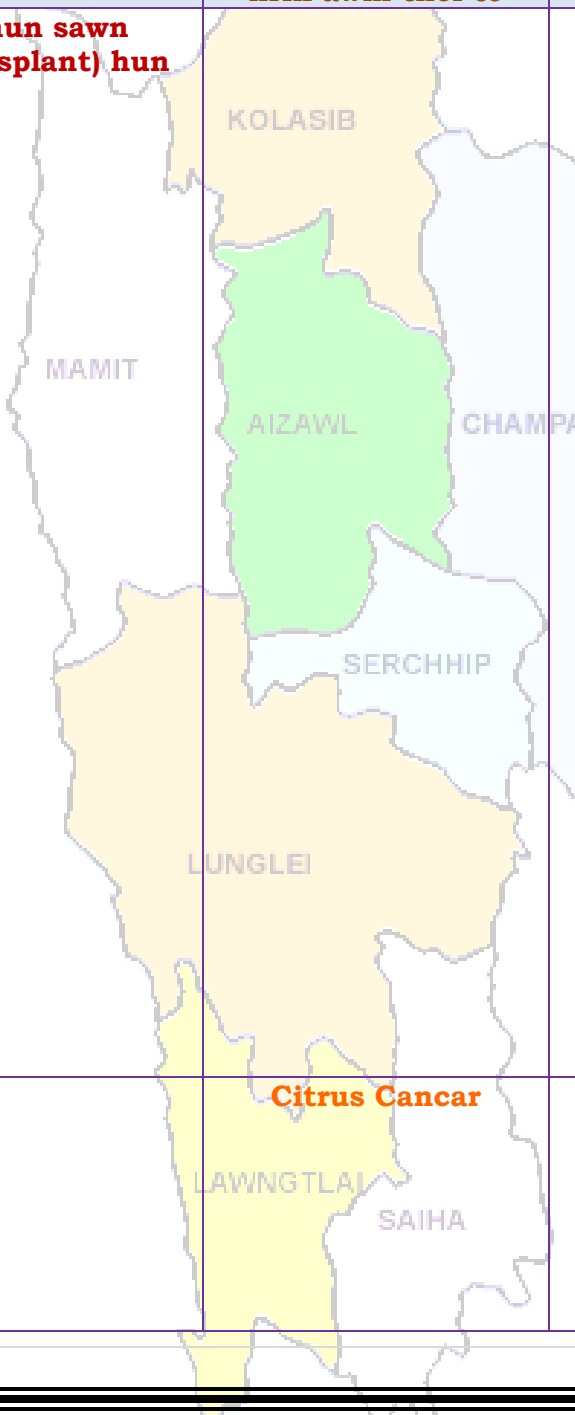
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	**Phun sawn (transplant) hun**		✦ Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmunah phun tur a ni. ✦ Chin hunbi bik a awm 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 chiah 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 leafminor and butterfly	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50% a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
Oil Palm	**A tet lai**		Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni. Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni. Oil palm tiak chu 2.5cm vela thuk in phum tur. Nitin tui pek tur. A tiak pakhat tan leitha SSP, MOP leh Mg_2SO_4 cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni. A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni. Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.
	Par a chhuah hma		A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni. Kung khatah 600:200:100 (NPK) hi hmun 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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			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		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	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**		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)	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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			✦ 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**		✦ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ✦ Tuthlawh hmangin hnim thlawh mai tur a ni. ✦ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni. ✦ A rah puitling ho chu seng nghal zel tur a ni.
		Fruit fly	✦ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrhsaiabe	**A par hma deuh atang a par thleng**		✦ 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**		✦ A bul vel tihfai that a, a zar

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

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			✦ Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Kharif rice	**A peng insiamtur zawng zawng insiam zawh hnu lawk**		✦ 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**		✦ 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**		✦ 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**		✦ 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**		✦ 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_2B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.

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