



GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lawngtlai

Period: 23 July - 27 July, 2016

Bulletin No: - 621/2016/ Bulletin/Mizo

Date of issue: 22th July, 2016

Parameters	23.07.2016	24.07.2016	25.07.2016	26.07.2016	27.07.2016
Rainfall (mm)	4	7	10	19	7
Max Temp (°C)	30	30	29	29	31
Min Temp (°C)	24	24	25	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	95	95	96	97	97
Min RH (%)	74	61	84	92	68
Wind Speed (KmPH)	4	4	4	2	3
*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	23th – 27th June, 2016 chhunga sik leh sa dinhmun tur tlangpui
	<p>Ni 5 lo awm turah hian ruahui tam vak lo a tlak beisei a ni. Khua a lum lai berin 29-31°C a ni ang a. A vawh lai ber in 24-25°C ni tura beisei a ni. RH san lai berin 95-97% leh a hniam lai berin 61-92% 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.</p> <p style="text-align: center;">Weekly cumulative rainfall: 47.0mm</p>

NDVI for Mizoram	<p>Extremely wet condition of soil moisture is observed over entire districts of North-East Region.</p>	<p>¹ Extremely wet condition occur in all district of Mizoram</p>
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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	 KOLASIB MAMIT AIZAWL CHAMPA SERCHHIP LUNGLEI LAWNGTLAI SAIHA	<ul style="list-style-type: none"> ⊕ 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	<ul style="list-style-type: none"> ⊕ 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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			<p>vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.</p>
		Citrus leafminor and butterfly	<ul style="list-style-type: none"> ■ 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	Par a chhuah hma		<ul style="list-style-type: none"> ■ A kung bul vel tihfai a, a zar tangkai lo/zar ro te pahi tur a ni. ■ Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni. ■ Micro-nutrients (zinc, copper, boron, manganese, iron leh molybdenum) te hi pek thin tur an ni. Pek that loh chuan huan pumpui chhiatna a thlen thei a ni. ■ Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.
Balhla	A par lai		<ul style="list-style-type: none"> ■ Balhla kung bul vel ■ tihfai a a hnah ro te thlak bawk tur. ■ Kung khatah 600:200:100 (NPK) hi hmun hniah 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	<ul style="list-style-type: none"> ■ 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



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		Banana panama wilt	ber a ni tlangpui).
	A hmin hun	KOLASIB	<ul style="list-style-type: none"> ■ 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.
	MAMIT	Banana fruit caterpillar	<ul style="list-style-type: none"> ■ 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 hnahn chung ber a ro tan thin.
Sapthei	Par a chhuah hma	AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> ■ Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin) emaw fipronil (Over N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur. ■ A bulhnai vel tihfai that tur. ■ Khaw ro lai chuan a zung bulah lei rihvur a, hnahnah 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	<ul style="list-style-type: none"> ■ 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 par lai	LUNGLEI LAWNGTIA SAIHA	<ul style="list-style-type: none"> ■ Thlaiin hnahn 32 a neih hunah a par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) tlai lamah pek tur. ■ Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. ■ Thlai pakhat ah leitha 60:50:60g (NPK) hi hmun hniah thenin pek tur. ■ Thlai hnahn leh a zar thi te chu



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			paihfai a, hnime te tihfai bawk tur a ni.
	A seng hunlai		<ul style="list-style-type: none"> ⊕ A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni. ⊕ Local market (khawchhunga hrakh nghan 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.
Colocasia	Par a chhuah hma		<ul style="list-style-type: none"> ⊕ A bul vel tihfai that a, a zar 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 hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.
			<ul style="list-style-type: none"> ⊕ 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		<ul style="list-style-type: none"> ⊕ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ⊕ Tuthlawh hmangin hnime thlawn 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.
			<ul style="list-style-type: none"> ⊕ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrhsaiabe	A par hma deuh atang a par thleng		<ul style="list-style-type: none"> ⊕ A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni.



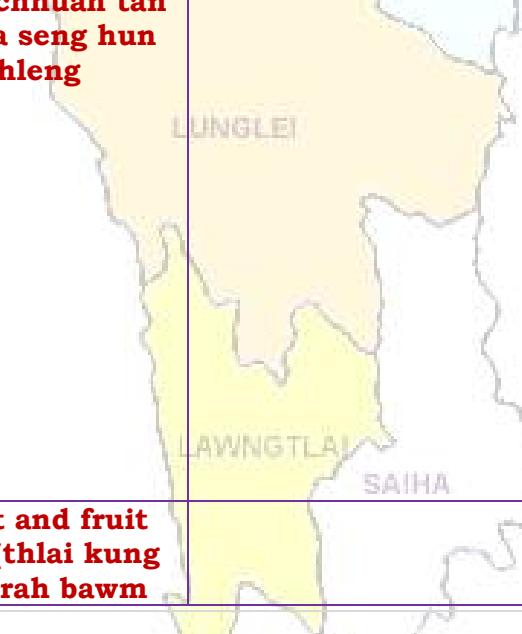
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			<ul style="list-style-type: none">■ A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni.■ Ruahtui tling a awm loh nan tui luankawr mumal siam tur a ni.■ A rah puitling apiang seng zel tur a ni. <p>Okra leafroller</p> <ul style="list-style-type: none">■ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Behlawi	Rah a chhuah tan atanga seng hun thleng		<ul style="list-style-type: none">■ A bul vel tihfai that a, a zar tangkai lo ho pahi 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 hnime 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		<ul style="list-style-type: none">■ A bul vel tihfai that a, a zar tangkai lo ho pahi tur.■ Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnime to tam tur a veng.■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, thlai thang a tichak bawk.■ Ram Hactare khata zauah leitha Urea 50kg hi hmun hniah thenin vawihnih phul tur a ni.■ A rah puitling apiang seng zel tur.
	Shoot and fruit borer (thlai kung leh a rah bawm		<ul style="list-style-type: none">■ Natna in a tihchhiat tawh thlai peng lakthlak a pahi tur.■ Rannung hlo imidacloprid 0.5ml



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	chi rannung)		emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
		Brinjal leaf beetle 	<ul style="list-style-type: none"> ■ 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 		<ul style="list-style-type: none"> ■ Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur. ■ Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur. ■ Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Pre-Kharif rice (Buh fur hma hreta chin chi)	A peng insiamtur zawng zawng insiam zawn hnu lawk 		<ul style="list-style-type: none"> ■ 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 	<ul style="list-style-type: none"> ■ Buh tiak a a hnah hmawr tanbun tur. ■ Natna kai tawhna peng te lakthlak a, pah 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.
Vaimim	A kawm insiam leh a sam rawn chhuah hunlai 		<ul style="list-style-type: none"> ■ A bul vela hnim leh thlaidang lo to ve palh te pah a, a hnah rote pah bawk tur. ■ Leitha nen rihvur tur. ■ Natna kai ho lakkhawma halral tur.
Sawhthing leh Aieng	Par a chhuah hma 		<ul style="list-style-type: none"> ■ Thlai hnah, a tang ro leh hnim te chu pahfai vek tur. ■ Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i



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		Turmeric shoot borer (Aieng kung ei chhetu rannung)	<ul style="list-style-type: none"> ■ Rannung hlo imidacloprid 0.5ml emaw phosalone 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 tan lai		<ul style="list-style-type: none"> ■ A bul vela hnim leh thlaidang lo to ve te that a pahi tur. ■ A kung bulah rih vur tur. ■ Natna kai tawh thlai te lakhawm a halral tur.
		Aphid and bug	<ul style="list-style-type: none"> ■ Rannung hlo imidacloprid 0.5ml emaw phosalone 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).	<ol style="list-style-type: none"> 1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	<ol style="list-style-type: none"> 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)	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> ■ Thla ruk an tlin hunah vaccine lak tan tur. ■ Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	<ol style="list-style-type: none"> 1. Ar note an pian hlimin F₁ vaccine pek tur a nia an puitlin hunah R₂B pek leh tur a ni. 2. Amprolium emaw coccidiostat pek
		Coccidiosis	



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District: Lunglei

Period: 23 July - 27 July, 2016

Bulletin No: - 621/2016/ Bulletin/English

Date of issue: 22th July, 2016

Parameters	23.07.2016	24.07.2016	25.07.2016	26.07.2016	27.07.2016
Rainfall (mm)	5	9	18	12	4
Max Temp (°C)	30	30	30	31	31
Min Temp (°C)	24	24	25	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	99	99	99	99
Min RH (%)	68	62	92	94	68
Wind Speed (KmpH)	3	3	2	2	2
*Wind Direction	S-E	S-E	E	S-E	E

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

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

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

Weather summary of the past three days	Weather forecast valid from 23 th June, 2016 To 27 th June, 2016.
The temperature range for maximum and minimum were 20.4-23.2°C and 17.3-18.6°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 85-97% & minimum of 50-81%. Rainfall recorded for the past three days is 31.50 mm. (Source-NICRA, AWS, Network)	There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-31°C and 24-25°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 62-94%. Wind direction would be southeasterly to easterly and southeasterly with the wind speed of 2-3 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 48.0 mm

NDVI for Mizoram		Extremely wet condition occur in all district of Mizoram
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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplanting stage		<ul style="list-style-type: none"> ➡ 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 $\frac{1}{2}$ 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	<ul style="list-style-type: none"> ➡ 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	<ul style="list-style-type: none"> ➡ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which



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Oil palm	Vegetative stage		<p>coincides with I Fortnight of July.</p> <ul style="list-style-type: none">■ Cleaning near base of the plant and cut unwanted branches.■ Application of split dose of fertilizer 600: 200:100 (g/pt).■ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.■ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Flowering stage		<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	<ul style="list-style-type: none">■ 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		<ul style="list-style-type: none">■ 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



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			<p>fruit drop off easily.</p> <ul style="list-style-type: none">■ The top most leaf starts drying as the bunch matures.■ Colour of fruits or fingers changes from dark green to pale green.
Passion Fruit	Vegetative stage	Banana fruit caterpillar	<ul style="list-style-type: none">■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.■ 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	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	Flowering stage	SERCHHIP	<ul style="list-style-type: none">■ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.■ The flowering emergence will come out after 55-60 days after chemical spraying.■ Apply split doses of fertilizer @ 60: 50:60 g per plant.■ Remove all unwanted leaves, branches and weed near to the plant.
Pineapple	Harvest stage	LAWNGTIA	<ul style="list-style-type: none">■ 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).
Colocasia	Vegetative		<ul style="list-style-type: none">■ Remove unwanted plant near base of



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	stage		
		KOLASIB	<p>the plant and cut dead branches.</p> <ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceo us crop	Harvesting stage	AIZAWL	<ul style="list-style-type: none">■ 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.
		SERCHHIP	<ul style="list-style-type: none">■ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Vegetative to flowering stage	LUNGLEI	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Cowpea	Fruit initiation to harvest	LAWNGTLAI SAIHA	<ul style="list-style-type: none">■ 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



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			beneficial for both reducing the weed and increasing the yield. <ul style="list-style-type: none">■ Harvest all mature fruit.
Brinjal	Fruit initiation to harvest		<ul style="list-style-type: none">■ 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.
			<ul style="list-style-type: none">■ 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.
			<ul style="list-style-type: none">■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	Transplanting stage		<ul style="list-style-type: none">■ Select disease free seedling with 3-5 leaf stage.■ Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution.■ Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops.■ Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Pre kharif Rice	Maximum tillering stage		<ul style="list-style-type: none">■ Remove unwanted plant by hand weeding.■ Apply split dose of fertilizer.■ Proper drainage is required to avoid water logging
			<ul style="list-style-type: none">■ 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.



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Maize	Tassling and silking stage		<ul style="list-style-type: none"> ■ Remove unwanted plant near base of the plant and cut dead branches. ■ Earthing up of soil along with fertilizer mixture. ■ Apply split dose of fertilizer.
		Maize cob borer	<ul style="list-style-type: none"> ■ 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		<ul style="list-style-type: none"> ■ Remove unwanted plant near base of the plant and cut dead branches. ■ Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. ■ Earthing up of soil along with fertilizer mixture.
		Turmeric shoot borer	<ul style="list-style-type: none"> ■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif pulses (Green gram, Black gram and Rajma)	Flower initiation stage		<ul style="list-style-type: none"> ■ Remove unwanted plant from the base of the plant. ■ Earthing up near base of the plant. ■ Remove all infected pant and burn it.
		Aphid and bug	<ul style="list-style-type: none"> ■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol style="list-style-type: none"> 1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	<ol style="list-style-type: none"> 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)	<ul style="list-style-type: none"> • FMD vaccine at 16 week and repeat every



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	Young stage	Black Quarter (BQ)	6 month.
Poultry	Adult stage	Ranikhet Disease.	<ul style="list-style-type: none">• Black Quarter Vaccine (BQV).❖ Primary vaccination 6 month or above❖ Revaccination annually
	Early stage	Coccidiosis	<ul style="list-style-type: none">• F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.1. Amprolium or coccidiostat





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District: Lunglei

Period: 23 July - 27 July, 2016

Bulletin No: - 621/2016/ Bulletin/Mizo

Date of issue: 22th July, 2016

Parameters	23.07.2016	24.07.2016	25.07.2016	26.07.2016	27.07.2016
Rainfall (mm)	5	9	18	12	4
Max Temp (°C)	30	30	30	31	31
Min Temp (°C)	24	24	25	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	99	99	99	99
Min RH (%)	68	62	92	94	68
Wind Speed (KmPH)	3	3	2	2	2
*Wind Direction	S-E	S-E	E	S-E	E

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

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

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

Ni thum kalta sik leh sa dinhmun tlangpui	23 th – 27 th June, 2016 chhunga sik leh sa dinhmun tur tlangpui
<p>Khua a lum lai berin 20.4-23.2°C leh a vawh lai berin 17.3-18.6°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 85-97% a ni a, a hniam lai berin 50-81% ani. Ni 3 kal ta chhung a ruah tla zat chu 31.50 mm a ni.</p> <p>(Source-NICRA, AWS, Network)</p>	<p>Ni 4 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai berin 24-25°C ni tura beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 62-94% 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.</p>

Weekly cumulative rainfall: 48.0mm

NDVI for Mizoram	<p style="text-align: center;">North-East Region</p> <p style="text-align: center;">13th July 2016</p> <p style="text-align: center;">Soil Moisture Index</p> <ul style="list-style-type: none"> Dark Red = 40-60 Moisture Deficit Yellow = 40-60 Moderate Deficit Green = 60-80 Moderate Wet Blue = >80 (Extremely Wet) <p style="text-align: center;">Extremely wet condition of soil moisture is observed over entire districts of North-East Region.</p>	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	 Citrus Cancer	<ul style="list-style-type: none"> ✚ 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 zawahah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.
			<ul style="list-style-type: none"> ✚ 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 Cancer natna a veng thei a, he natna veisa kung ah chuan hman loh tur a ni thung.



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		 <p style="color: red; font-weight: bold;">Citrus leafminor and butterfly</p>	<ul style="list-style-type: none"> ■ Kung tlemte chauhin he natna an vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.
		 <p style="color: red; font-weight: bold;">Par a chhuah hma</p>	<ul style="list-style-type: none"> ■ 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		 <p style="color: red; font-weight: bold;">Par a chhuah hma</p>	<ul style="list-style-type: none"> ■ A kung bul vel tihfai a, a zar tangkai lo/zar ro te pah tur a ni. ■ Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni. ■ Micro-nutrients (zinc, copper, boron, manganese, iron leh molybdenum) te hi pek thin tur an ni. Pek that loh chuan huan pumpui chhiatna a thlen thei a ni. ■ Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.
Balhla		 <p style="color: red; font-weight: bold;">A par lai</p>	<ul style="list-style-type: none"> ■ Balhla kung bul vel ■ tihfai a a hnah ro te thlak bawk tur. ■ Kung khatah 600:200:100 (NPK) hi hmun hniah 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.
		 <p style="color: red; font-weight: bold;">Banana Rhizome weevil</p>	<ul style="list-style-type: none"> ■ 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).



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			velah kah tur a ni (July kar hmasa ber a ni tlangpui).
		Banana panama wilt	<ul style="list-style-type: none"> ✚ Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara pahi tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.
	A hmin hun	KOLASIB	<ul style="list-style-type: none"> ✚ 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.
	MAMIT	Banana fruit caterpillar	<ul style="list-style-type: none"> ✚ 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.
Sapthei	Par a chhuah hma	AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> ✚ A bulhnai vel tihfai that tur. ✚ Khaw ro lai chuan a zung bulah lei rihvur a, hnimehnah 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	<ul style="list-style-type: none"> ✚ 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 par lai	LUNGLEI LAWNGTIA SAIHA	<ul style="list-style-type: none"> ✚ Thlaiin hnah 32 a neih hunah a par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) tlai lamah pek tur. ✚ Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. ✚ Thlai pakhat ah leitha 60:50:60g (NPK) hi hmun hnihah thenin pek tur.



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			<ul style="list-style-type: none"> ✚ Thlai hnah leh a zar thi te chu paifai a, hnime te tihfai bawk tur a ni. ✚ A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni. ✚ Local market (khawchhunga hrakh nighal 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.
Colocasia	A seng hunlai	KOLASIB	<ul style="list-style-type: none"> ✚ A bul vel tihfai that a, a zar tangkai lo ho pahit 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 hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.
	Par a chhuah hma	MAMIT	<ul style="list-style-type: none"> ✚ Thlai bul (plant base) ah rannung tui hmuh a nih chuan ram hectare khat hmunah Carbofurran 3G 1.5kg a.i hi thlai zung bulah hman tur a ni.
		CORM BORER	<ul style="list-style-type: none"> ✚ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ✚ Tuthlawh hmangin hnime thlawn 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 nighal zel tur a ni.
Cucurbitaceous crops	A seng hun	LUNGLEI	<ul style="list-style-type: none"> ✚ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
		SAIHA	<ul style="list-style-type: none"> ✚ A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a
Bawrhsaibe	A par hma deuh atang a par thleng		



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				<p>ni.</p> <ul style="list-style-type: none"> ■ A kung bul rihvur tur a ni a, leitha vawi hniih 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. <p>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.</p>
Behlawi	Rah a chhuah tan atanga seng hun thleng			<ul style="list-style-type: none"> ■ A bul vel tihfai that a, a zar 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 hnime 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			<ul style="list-style-type: none"> ■ 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 hnime to tam tur a veng. ■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, thlai thang a tichak bawk. ■ Ram Hactare khata zauah leitha Urea 50kg hi hmun hniah thenin vawihnih phul tur a ni. ■ A rah puitling apiang seng zel tur. <p>Natna in a tihchhiat tawh thlai peng lakthlak a paih tur.</p>
	Shoot and fruit borer (thlai kung)			



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	leh a rah bawm chi rannung)		<ul style="list-style-type: none"> ■ Rannung hlo imidacloprid 0.5ml emaw phosalone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
		Brinjal leaf beetle KOLASIB	<ul style="list-style-type: none"> ■ 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		<ul style="list-style-type: none"> ■ Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur. ■ Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur. ■ Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Pre-Kharif rice (Buh fur hma hreta chin chi)	A peng insiamtur zawng zawng insiam zagh hnu lawk		<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ Buh tiak a a hnah hmawr tanbun tur. ■ Natna kai tawhna peng te lakthlak a, pahi tur. ■ Rannung hlo imidacloprid 0.5ml emaw phosalone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Vaimim	A kawm insiam leh a sam rawn chhuah hunlai		<ul style="list-style-type: none"> ■ A bul vela hnim leh thlaidang lo to ve palh te pahi a, a hnah rote pahi bawk tur. ■ Leitha nen rihvur tur. ■ Natna kai ho lakkhawma halral tur.
Sawhthing leh Aieng	Par a chhuah hma		<ul style="list-style-type: none"> ■ Thlai hnah, a tang ro leh hnim te chu pahi vek tur. ■ Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp,



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		Turmeric shoot borer (Aieng kung ei chhetu rannung)	Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kg a.i ha ⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha ⁻¹ , Pendimethalin (Stomp) @ 1-1.5kg a.i ha ⁻¹ te hian hnimhnah lian lampang chi a veng a ni.
Kharif pulses (Green gram, Black gram and Rajma)	Par a chhuah tan lai		<ul style="list-style-type: none"> ■ 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		<ul style="list-style-type: none"> ■ A bul vela hnime leh thlaidang lo to ve te that a pail tur. ■ A kung bulah rih vur tur. ■ Natna kai tawh thlai te lakkawm a halral tur.
	A puitling hun		<ul style="list-style-type: none"> ■ 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.
Bawng	Kumtluanin		<ol style="list-style-type: none"> 1. A natna vei vawk te chu thah a phum tur a ni.
	A naupan lai		<ol style="list-style-type: none"> 2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Ar	Kumtluanin		<ul style="list-style-type: none"> • Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni. • Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> ■ Thla ruk an tlin hunah vaccine lak tan tur. ■ Kumkhat hnu ah vaccine pek leh tur.
			<ol style="list-style-type: none"> 1. Ar note an pian hlimin F₁ vaccine pek tur a nia an puitlin hunah R₂B pek leh tur a ni.



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Coccidiosis

2. Amprolium emaw coccidiostat pek tur.





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District: Mamit

Period: 23 July - 27 July, 2016

Bulletin No: - 621/2016/ Bulletin/English

Date of issue: 22th July, 2016

Parameters	23.07.2016	24.07.2016	25.07.2016	26.07.2016	27.07.2016
Rainfall (mm)	8	9	20	9	3
Max Temp (°C)	30	30	30	30	30
Min Temp (°C)	25	25	24	24	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	99	99	100	97
Min RH (%)	58	75	91	97	74
Wind Speed (KmpH)	4	4	4	2	4
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

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

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

Weather summary of the past three days	Weather forecast valid from 23 th June, 2016 To 27 th June, 2016.
The temperature range for maximum and minimum were 24.5-27.2°C and 20.4-21.2°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 76-84% & minimum of 48-70%. Rainfall recorded for the past three days is 43.30 mm. (Source-mosdac.gov.in)	There are chances of very heavy to moderate and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30°C and 24-25°C. Maximum relative humidity is expected in the range of 97-100% and minimum may from 58-97%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 49.0 mm

NDVI for Mizoram	<p>Extremely wet condition of soil moisture is observed over entire districts of North-East Region.</p>	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		<ul style="list-style-type: none"> ➡ 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 $\frac{1}{2}$ 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	<ul style="list-style-type: none"> ➡ Copper-based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/l 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	<ul style="list-style-type: none"> ➡ 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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Oil palm	Vegetative stage		<p>coincides with I Fortnight of July.</p> <ul style="list-style-type: none">■ Cleaning near base of the plant and cut unwanted branches.■ Application of split dose of fertilizer 600: 200:100 (g/pt).■ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.■ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Flowering stage		<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	<ul style="list-style-type: none">■ 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		<ul style="list-style-type: none">■ 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



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			<p>fruit drop off easily.</p> <ul style="list-style-type: none">■ The top most leaf starts drying as the bunch matures.■ Colour of fruits or fingers changes from dark green to pale green.
Passion Fruit	Vegetative stage	Banana fruit caterpillar 	<ul style="list-style-type: none">■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.■ 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 	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	Flowering stage		<ul style="list-style-type: none">■ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.■ The flowering emergence will come out after 55-60 days after chemical spraying.■ Apply split doses of fertilizer @ 60: 50:60 g per plant.■ Remove all unwanted leaves, branches and weed near to the plant.
Pineapple	Harvest stage		<ul style="list-style-type: none">■ 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).
Colocasia	Vegetative		<ul style="list-style-type: none">■ Remove unwanted plant near base of



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	stage	Map	Instructions
		KOLASIB	<p>the plant and cut dead branches.</p> <ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceo us crop	Harvesting stage	AIZAWL	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Vegetative to flowering stage	LUNGLEI	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Cowpea	Fruit initiation to harvest	LAWNGTIA	<ul style="list-style-type: none">■ 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



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			<p>beneficial for both reducing the weed and increasing the yield.</p> <ul style="list-style-type: none">■ Harvest all mature fruit.
Brinjal	Fruit initiation to harvest		<ul style="list-style-type: none">■ 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.
			<ul style="list-style-type: none">■ 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.
			<ul style="list-style-type: none">■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	Transplanting stage		<ul style="list-style-type: none">■ Select disease free seedling with 3-5 leaf stage.■ Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution.■ Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops.■ Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Pre kharif Rice	Maximum tillering stage		<ul style="list-style-type: none">■ Remove unwanted plant by hand weeding.■ Apply split dose of fertilizer.■ Proper drainage is required to avoid water logging
			<ul style="list-style-type: none">■ 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.



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Maize	Tassling and silking stage		<ul style="list-style-type: none"> ■ Remove unwanted plant near base of the plant and cut dead branches. ■ Earthing up of soil along with fertilizer mixture. ■ Apply split dose of fertilizer.
		Maize cob borer	<ul style="list-style-type: none"> ■ 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		<ul style="list-style-type: none"> ■ Remove unwanted plant near base of the plant and cut dead branches. ■ Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. ■ Earthing up of soil along with fertilizer mixture.
		Turmeric shoot borer	<ul style="list-style-type: none"> ■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif pulses (Green gram, Black gram and Rajma)	Flower initiation stage		<ul style="list-style-type: none"> ■ Remove unwanted plant from the base of the plant. ■ Earthing up near base of the plant. ■ Remove all infected pant and burn it.
		Aphid and bug	<ul style="list-style-type: none"> ■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol style="list-style-type: none"> 1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	<ol style="list-style-type: none"> 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)	<ul style="list-style-type: none"> • FMD vaccine at 16 week and repeat every 6 month.



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	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none">• Black Quarter Vaccine (BQV).❖ Primary vaccination 6 month or above❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	<ul style="list-style-type: none">• F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	<ol style="list-style-type: none">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: 23 July - 27 July, 2016

Bulletin No: - 621/2016/ Bulletin/Mizo

Date of issue: 22th July, 2016

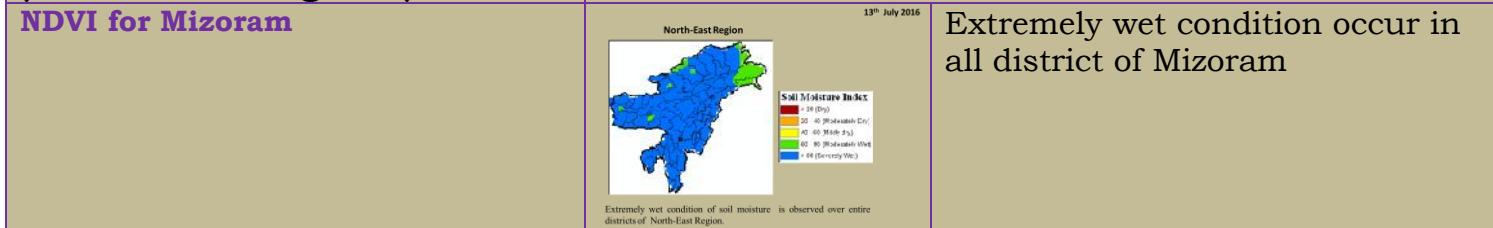
Parameters	23.07.2016	24.07.2016	25.07.2016	26.07.2016	27.07.2016
Rainfall (mm)	8	9	120	9	3
Max Temp (°C)	30	30	20	30	30
Min Temp (°C)	25	25	24	24	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	99	99	100	97
Min RH (%)	58	75	91	97	74
Wind Speed (KmPH)	4	4	4	2	4
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

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

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

Ni thum kalta sik leh sa dinhmun tlangpui	23th – 27th June, 2016 chhunga sik leh sa dinhmun tur tlangpui
<p>Khua a lum lai berin 24.5-27.2°C leh a vawh lai berin 20.4-21.2°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 76-84% a ni a, a hniam lai berin 48-70% ani. Ni 3 kal ta chhung a ruah tla zat chu 43.30 mm a ni.</p> <p>(Source- Mosdac.gov.in)</p>	<p>Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 30°C a ni ang a. A vawh lai berin 24-25°C ni tura beisei a ni. RH san lai berin 97-100% leh a hniam lai berin 58-97% 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.</p> <p style="text-align: center;">Weekly cumulative rainfall: 49.0mm</p>





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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	<p style="text-align: center;">KOLASIB MAMIT AIZAWL CHAMPAI SERCHHIP LUNGLEI LAWNGTLAI SAIHA</p>	<ul style="list-style-type: none"> ⊕ 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 zawah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.
		Citrus Cancar	<ul style="list-style-type: none"> ⊕ 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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			<p>vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.</p> <ul style="list-style-type: none"> ■ 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	Par a chhuah hma		<ul style="list-style-type: none"> ■ A kung bul vel tihfai a, a zar tangkai lo/zar ro te pahi tur a ni. ■ Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni. ■ Micro-nutrients (zinc, copper, boron, manganese, iron leh molybdenum) te hi pek thin tur an ni. Pek that loh chuan huan pumpui chhiatna a thlen thei a ni. ■ Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.
Balhla	A par lai		<ul style="list-style-type: none"> ■ Balhla kung bul vel ■ tihfai a a hnah ro te thlak bawk tur. ■ Kung khatah 600:200:100 (NPK) hi hmun hniah 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.
			<ul style="list-style-type: none"> ■ 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



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		Banana panama wilt	ber a ni tlangpui).
	A hmin hun	KOLASIB	<ul style="list-style-type: none"> ■ 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.
	MAMIT	Banana fruit caterpillar	<ul style="list-style-type: none"> ■ 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 hnahn chung ber a ro tan thin.
Sapthei	Par a chhuah hma	AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> ■ Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin) emaw fipronil (Over N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur. ■ A bulhnai vel tihfai that tur. ■ Khaw ro lai chuan a zung bulah lei rihvur a, hnahnah 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	<ul style="list-style-type: none"> ■ 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 par lai	LUNGLEI LAWNGTIA SAIHA	<ul style="list-style-type: none"> ■ Thlaiin hnahn 32 a neih hunah a par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) tlai lamah pek tur. ■ Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. ■ Thlai pakhat ah leitha 60:50:60g (NPK) hi hmun hniah thenin pek tur. ■ Thlai hnahn leh a zar thi te chu



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			paihfai a, hnime te tihfai bawk tur a ni.
	A seng hunlai		<ul style="list-style-type: none"> ⊕ A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni. ⊕ Local market (khawchhunga hrakh nghan 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.
Colocasia	Par a chhuah hma		<ul style="list-style-type: none"> ⊕ A bul vel tihfai that a, a zar 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 hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.
			<ul style="list-style-type: none"> ⊕ 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		<ul style="list-style-type: none"> ⊕ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ⊕ Tuthlawh hmangin hnime thlawn 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.
			<ul style="list-style-type: none"> ⊕ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrhsaiabe	A par hma deuh atang a par thleng		<ul style="list-style-type: none"> ⊕ A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni.



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			<ul style="list-style-type: none">■ 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. <p>Okra leafroller</p> <ul style="list-style-type: none">■ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Behlawi	Rah a chhuah tan atanga seng hun thleng		<ul style="list-style-type: none">■ A bul vel tihfai that a, a zar tangkai lo ho pahi 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 hnime 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		<ul style="list-style-type: none">■ A bul vel tihfai that a, a zar tangkai lo ho pahi tur.■ Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnime to tam tur a veng.■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, thlai thang a tichak bawk.■ Ram Hactare khata zauah leitha Urea 50kg hi hmun hniah thenin vawihnih phul tur a ni.■ A rah puitling apiang seng zel tur.
	Shoot and fruit borer (thlai kung leh a rah bawm)		<ul style="list-style-type: none">■ Natna in a tihchhiat tawh thlai peng lakthlak a pahi tur.■ Rannung hlo imidacloprid 0.5ml



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	chi rannung)		emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
		Brinjal leaf beetle 	<ul style="list-style-type: none"> ■ 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 		<ul style="list-style-type: none"> ■ Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur. ■ Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur. ■ Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Pre-Kharif rice (Buh fur hma hreta chin chi)	A peng insiamtur zawng zawng insiam zawn hnu lawk 		<ul style="list-style-type: none"> ■ 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 	<ul style="list-style-type: none"> ■ Buh tiak a a hnah hmawr tanbun tur. ■ Natna kai tawhna peng te lakthlak a, pah 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.
Vaimim	A kawm insiam leh a sam rawn chhuah hunlai 		<ul style="list-style-type: none"> ■ A bul vela hnim leh thlaidang lo to ve palh te pah a, a hnah rote pah bawk tur. ■ Leitha nen rihvur tur. ■ Natna kai ho lakkhawma halral tur.
Sawhthing leh Aieng	Par a chhuah hma 		<ul style="list-style-type: none"> ■ Thlai hnah, a tang ro leh hnim te chu pahfai vek tur. ■ Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i



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		Turmeric shoot borer (Aieng kung ei chhetu rannung)	<ul style="list-style-type: none"> ■ Rannung hlo imidacloprid 0.5ml emaw phosalone 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 tan lai		<ul style="list-style-type: none"> ■ A bul vela hnim leh thlaidang lo to ve te that a pahi tur. ■ A kung bulah rih vur tur. ■ Natna kai tawh thlai te lakkhawm a halral tur.
		Aphid and bug	<ul style="list-style-type: none"> ■ Rannung hlo imidacloprid 0.5ml emaw phosalone 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).	<ol style="list-style-type: none"> 1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	<ol style="list-style-type: none"> 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)	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> ■ Thla ruk an tlin hunah vaccine lak tan tur. ■ Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	<ol style="list-style-type: none"> 1. Ar note an pian hlimin F₁ vaccine pek tur a nia an puitlin hunah R₂B pek leh tur a ni. 2. Amprolium emaw coccidiostat pek
		Coccidiosis	



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District: Saiha

Period: 23 July - 27 July, 2016

Bulletin No: - 621/2016/ Bulletin/English

Date of issue: 22th July, 2016

Parameters	23.07.2016	24.07.2016	25.07.2016	26.07.2016	27.07.2016
Rainfall (mm)	5	6	15	15	0
Max Temp (°C)	31	31	31	32	32
Min Temp (°C)	24	24	24	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	96	96	97	97	99
Min RH (%)	78	61	84	93	70
Wind Speed (KmpH)	4	4	3	2	2
*Wind Direction	E	E	E	E	E

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

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

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

Weather summary of the past three days	Weather forecast valid from 23 th June, 2016 To 27 th June, 2016.
The temperature range for maximum and minimum were 17.2-20.6°C and 12.1-13.7°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 90-98% & minimum of 68-93%. Rainfall recorded for the past three days is 42.80 mm. (Source-mosdac.gov.in)	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 31-32°C and 24-25°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 61-93%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 41.0 mm

NDVI for Mizoram	<p>Extremely wet condition of soil moisture is observed over entire districts of North-East Region.</p>	Extremely wet condition occur in all district of Mizoram
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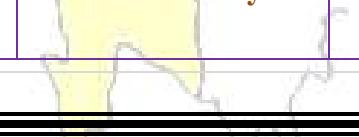
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Guwahati)



Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplanting stage	 KOLASIB MAMIT AIZAWL SERCHHIP LAWNGTLAI CHAMPAHI	<ul style="list-style-type: none">➡ 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 $\frac{1}{2}$ 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  KOLASIB MAMIT AIZAWL SERCHHIP LAWNGTLAI CHAMPAHI	<ul style="list-style-type: none">➡ Copper-based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/l 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  KOLASIB MAMIT AIZAWL SERCHHIP LAWNGTLAI CHAMPAHI	<ul style="list-style-type: none">➡ 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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Oil palm	Vegetative stage		coincides with I Fortnight of July. <ul style="list-style-type: none">■ Cleaning near base of the plant and cut unwanted branches.■ Application of split dose of fertilizer 600: 200:100 (g/pt).■ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.■ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Flowering stage		<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ 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		<ul style="list-style-type: none">■ 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



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			<p>fruit drop off easily.</p> <ul style="list-style-type: none">■ The top most leaf starts drying as the bunch matures.■ Colour of fruits or fingers changes from dark green to pale green.
Passion Fruit	Vegetative stage	Banana fruit caterpillar 	<ul style="list-style-type: none">■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.■ 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 	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	Flowering stage		<ul style="list-style-type: none">■ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.■ The flowering emergence will come out after 55-60 days after chemical spraying.■ Apply split doses of fertilizer @ 60: 50:60 g per plant.■ Remove all unwanted leaves, branches and weed near to the plant.
Pineapple	Harvest stage		<ul style="list-style-type: none">■ 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).
Colocasia	Vegetative		<ul style="list-style-type: none">■ Remove unwanted plant near base of



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	stage	Map	Instructions
		KOLASIB	<p>the plant and cut dead branches.</p> <ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceo us crop	Harvesting stage	AIZAWL	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Vegetative to flowering stage	LUNGLEI	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Cowpea	Fruit initiation to harvest	LAWNGTIA	<ul style="list-style-type: none">■ 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



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			beneficial for both reducing the weed and increasing the yield. ↳ Harvest all mature fruit.
Brinjal	Fruit initiation to harvest	KOLASIB MAMIT	<ul style="list-style-type: none">↳ 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 Brinjal leaf beetle	<ul style="list-style-type: none">↳ 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.
Kharif Rice	Transplanting stage	SERCHHP LUNGLEI	<ul style="list-style-type: none">↳ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over N Out), pyrethrins @ 1 to 1.5 ml/lt of water.↳ Select disease free seedling with 3-5 leaf stage.↳ Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution.↳ Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops.↳ Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Pre kharif Rice	Maximum tillering stage		<ul style="list-style-type: none">↳ Remove unwanted plant by hand weeding.↳ Apply split dose of fertilizer.↳ Proper drainage is required to avoid water logging
		Rice yellow stem borer SAIHA	<ul style="list-style-type: none">↳ 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.



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Maize	Tassling and silking stage		<ul style="list-style-type: none"> ■ Remove unwanted plant near base of the plant and cut dead branches. ■ Earthing up of soil along with fertilizer mixture. ■ Apply split dose of fertilizer.
		Maize cob borer	<ul style="list-style-type: none"> ■ 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		<ul style="list-style-type: none"> ■ Remove unwanted plant near base of the plant and cut dead branches. ■ Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. ■ Earthing up of soil along with fertilizer mixture.
		Turmeric shoot borer	<ul style="list-style-type: none"> ■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif pulses (Green gram, Black gram and Rajma)	Flower initiation stage		<ul style="list-style-type: none"> ■ Remove unwanted plant from the base of the plant. ■ Earthing up near base of the plant. ■ Remove all infected pant and burn it.
		Aphid and bug	<ul style="list-style-type: none"> ■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol style="list-style-type: none"> 1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	<ol style="list-style-type: none"> 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)	<ul style="list-style-type: none"> • FMD vaccine at 16 week and repeat every 6 month.



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	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none">• Black Quarter Vaccine (BQV).❖ Primary vaccination 6 month or above❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	<ul style="list-style-type: none">• F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	<ol style="list-style-type: none">1. Amprolium or coccidiostat





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District: Saiha

Period: 23 July - 27 July, 2016

Bulletin No: - 621/2016/ Bulletin/Mizo

Date of issue: 22th July, 2016

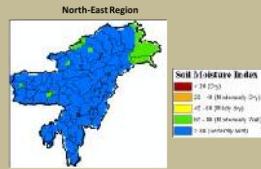
Parameters	23.07.2016	24.07.2016	25.07.2016	26.07.2016	27.07.2016
Rainfall (mm)	5	6	15	15	0
Max Temp (°C)	31	31	31	32	32
Min Temp (°C)	24	24	24	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	96	96	97	97	99
Min RH (%)	78	61	84	93	70
Wind Speed (KmPH)	4	4	3	2	2
*Wind Direction	E	E	E	E	E

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

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

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

Ni thum kalta sik leh sa dinhmun tlangpui	23th – 27th June, 2016 chhunga sik leh sa dinhmun tur tlangpui		
Khua a lum lai berin 17.2-20.6°C leh a vawh lai berin 12.1-13.7°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 90-98% a ni a, a hniam lai berin 68-93% ani. Ni 3 kal ta chhung a ruah tla zat chu 42.80 mm a ni. (Source- Mosdac.gov.in)	Ni 5 lo awm turah hian ruah tui tam vak lo a tlak beisei a ni. Khua a lum lai berin 31-32°C a ni ang a. A vawh lai berin 24-25°C ni tura beisei a ni. RH san lai berin 96-99% leh a hniam lai berin 61-93% 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.		

NDVI for Mizoram	 <p style="text-align: center;">North-East Region</p> <p style="text-align: center;">Soil Moisture Index</p> <p style="text-align: center;">13th July 2016</p> <p style="text-align: center;">Extremely wet condition of soil moisture is observed over entire districts of North-East Region.</p>	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	<p style="text-align: center;">KOLASIB MAMIT AIZAWL CHAMPAI SERCHHIP LUNGLEI LAWNGTLAI SAIHA</p>	<ul style="list-style-type: none"> ⊕ Heng ser tiak te hi Ni zung hmuh thatna, thili 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 zawah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.
		Citrus Cancar	<ul style="list-style-type: none"> ⊕ 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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			<p>vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.</p> <ul style="list-style-type: none"> ■ 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	Par a chhuah hma		<ul style="list-style-type: none"> ■ A kung bul vel tihfai a, a zar tangkai lo/zar ro te pahi tur a ni. ■ Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni. ■ Micro-nutrients (zinc, copper, boron, manganese, iron leh molybdenum) te hi pek thin tur an ni. Pek that loh chuan huan pumpui chhiatna a thlen thei a ni. ■ Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.
Balhla	A par lai		<ul style="list-style-type: none"> ■ Balhla kung bul vel ■ tihfai a a hnah ro te thlak bawk tur. ■ Kung khatah 600:200:100 (NPK) hi hmun hniah 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.
			<ul style="list-style-type: none"> ■ 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).



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		Banana panama wilt	ber a ni tlangpui).
	A hmin hun	KOLASIB	<ul style="list-style-type: none"> ■ 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.
	MAMIT	Banana fruit caterpillar	<ul style="list-style-type: none"> ■ 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 hnahn chung ber a ro tan thin.
Sapthei	Par a chhuah hma	AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> ■ Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin) emaw fipronil (Over N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur. ■ A bulhnai vel tihfai that tur. ■ Khaw ro lai chuan a zung bulah lei rihvur a, hnahnah 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	<ul style="list-style-type: none"> ■ 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 par lai	LUNGLEI LAWNGTIA SAIHA	<ul style="list-style-type: none"> ■ Thlaiin hnahn 32 a neih hunah a par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) tlai lamah pek tur. ■ Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. ■ Thlai pakhat ah leitha 60:50:60g (NPK) hi hmun hniah thenin pek tur. ■ Thlai hnahn leh a zar thi te chu



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			paihfai a, hnime te tihfai bawk tur a ni.
	A seng hunlai		<ul style="list-style-type: none"> ⊕ A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni. ⊕ Local market (khawchhunga hrakh nghan 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.
Colocasia	Par a chhuah hma		<ul style="list-style-type: none"> ⊕ A bul vel tihfai that a, a zar 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 hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.
			<ul style="list-style-type: none"> ⊕ 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		<ul style="list-style-type: none"> ⊕ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ⊕ Tuthlawh hmangin hnime thlawn 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.
			<ul style="list-style-type: none"> ⊕ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrhsaiabe	A par hma deuh atang a par thleng		<ul style="list-style-type: none"> ⊕ A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni.



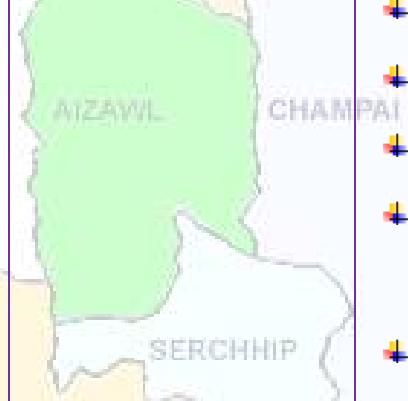
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			<ul style="list-style-type: none"> ■ A kung bul rihvur tur a ni a, leitha vawi hniih pek bawk tur a ni. ■ Ruahtui tling a awm loh nan tui luankawr mumal siam tur a ni. ■ A rah puitling apiang seng zel tur a ni. <p>Okra leafroller</p> <ul style="list-style-type: none"> ■ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Behlawi	Rah a chhuah tan atanga seng hun thleng		<ul style="list-style-type: none"> ■ A bul vel tihfai that a, a zar tangkai lo ho pahi 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 hnime 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		<ul style="list-style-type: none"> ■ A bul vel tihfai that a, a zar tangkai lo ho pahi tur. ■ Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnime to tam tur a veng. ■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, thlai thang a tichak bawk. ■ Ram Hactare khata zauah leitha Urea 50kg hi hmun hniih thenin vawihnih phul tur a ni. ■ A rah puitling apiang seng zel tur.
	Shoot and fruit borer (thlai kung leh a rah bawm)		<ul style="list-style-type: none"> ■ Natna in a tihchhiat tawh thlai peng lakthlak a pahi tur. ■ Rannung hlo imidacloprid 0.5ml



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	chi rannung)		emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
		Brinjal leaf beetle 	<ul style="list-style-type: none"> ■ 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 		<ul style="list-style-type: none"> ■ Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur. ■ Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur. ■ Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Pre-Kharif rice (Buh fur hma hreta chin chi)	A peng insiamtur zawng zawng insiam zawn hnu lawk 		<ul style="list-style-type: none"> ■ 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 	<ul style="list-style-type: none"> ■ Buh tiak a a hnah hmawr tanbun tur. ■ Natna kai tawhna peng te lakthlak a, pah 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.
Vaimim	A kawm insiam leh a sam rawn chhuah hunlai 		<ul style="list-style-type: none"> ■ A bul vela hnim leh thlaidang lo to ve palh te pah a, a hnah rote pah bawk tur. ■ Leitha nen rihvur tur. ■ Natna kai ho lakkhawma halral tur.
Sawhthing leh Aieng	Par a chhuah hma 		<ul style="list-style-type: none"> ■ Thlai hnah, a tang ro leh hnim te chu pahfai vek tur. ■ Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i



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		Turmeric shoot borer (Aieng kung ei chhetu rannung)	<ul style="list-style-type: none"> ■ Rannung hlo imidacloprid 0.5ml emaw phosalone 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 tan lai		<ul style="list-style-type: none"> ■ A bul vela hnim leh thlaidang lo to ve te that a pahi tur. ■ A kung bulah rih vur tur. ■ Natna kai tawh thlai te lakkhawm a halral tur.
		Aphid and bug	<ul style="list-style-type: none"> ■ Rannung hlo imidacloprid 0.5ml emaw phosalone 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).	<ol style="list-style-type: none"> 1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	<ol style="list-style-type: none"> 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)	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> ■ Thla ruk an tlin hunah vaccine lak tan tur. ■ Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	<ol style="list-style-type: none"> 1. Ar note an pian hlimin F₁ vaccine pek tur a nia an puitlin hunah R₂B pek leh tur a ni. 2. Amprolium emaw coccidiostat pek
		Coccidiosis	



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District: Serchhip

Period: 23 July - 27 July, 2016

Bulletin No: - 621/2016/ Bulletin/English

Date of issue: 22th July, 2016

Parameters	23.07.2016	24.07.2016	25.07.2016	26.07.2016	27.07.2016
Rainfall (mm)	8	9	10	7	4
Max Temp (°C)	32	32	32	32	32
Min Temp (°C)	25	25	25	26	26
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	Mainly clear
Max RH (%)	99	100	99	100	100
Min RH (%)	67	66	94	95	72
Wind Speed (KmPH)	2	2	2	2	2
*Wind Direction	E	S-E	E	S-E	E

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

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

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

Weather summary of the past three days	Weather forecast valid from 23 th June, 2016 To 27 th June, 2016.
	<p>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 32°C and 25-26°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 66-95%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.</p> <p>Weekly cumulative rainfall: 38.0 mm</p>

NDVI for Mizoram	<p>Extremely wet condition of soil moisture is observed over entire districts of North-East Region.</p>	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		<ul style="list-style-type: none"> ➡ 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 $\frac{1}{2}$ 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	<ul style="list-style-type: none"> ➡ Copper-based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/l 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	<ul style="list-style-type: none"> ➡ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which



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Oil palm	Vegetative stage		coincides with I Fortnight of July. <ul style="list-style-type: none"> ■ Cleaning near base of the plant and cut unwanted branches. ■ Application of split dose of fertilizer 600: 200:100 (g/pt). ■ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ■ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Flowering stage		<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	<ul style="list-style-type: none"> ■ 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		<ul style="list-style-type: none"> ■ 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



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			<p>fruit drop off easily.</p> <ul style="list-style-type: none">■ The top most leaf starts drying as the bunch matures.■ Colour of fruits or fingers changes from dark green to pale green.
Passion Fruit	Vegetative stage	Banana fruit caterpillar	<ul style="list-style-type: none">■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.■ 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	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	Flowering stage	SERCHHIP	<ul style="list-style-type: none">■ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.■ The flowering emergence will come out after 55-60 days after chemical spraying.■ Apply split doses of fertilizer @ 60: 50:60 g per plant.■ Remove all unwanted leaves, branches and weed near to the plant.
Pineapple	Harvest stage	LAWNGTIA	<ul style="list-style-type: none">■ 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).
Colocasia	Vegetative		<ul style="list-style-type: none">■ Remove unwanted plant near base of



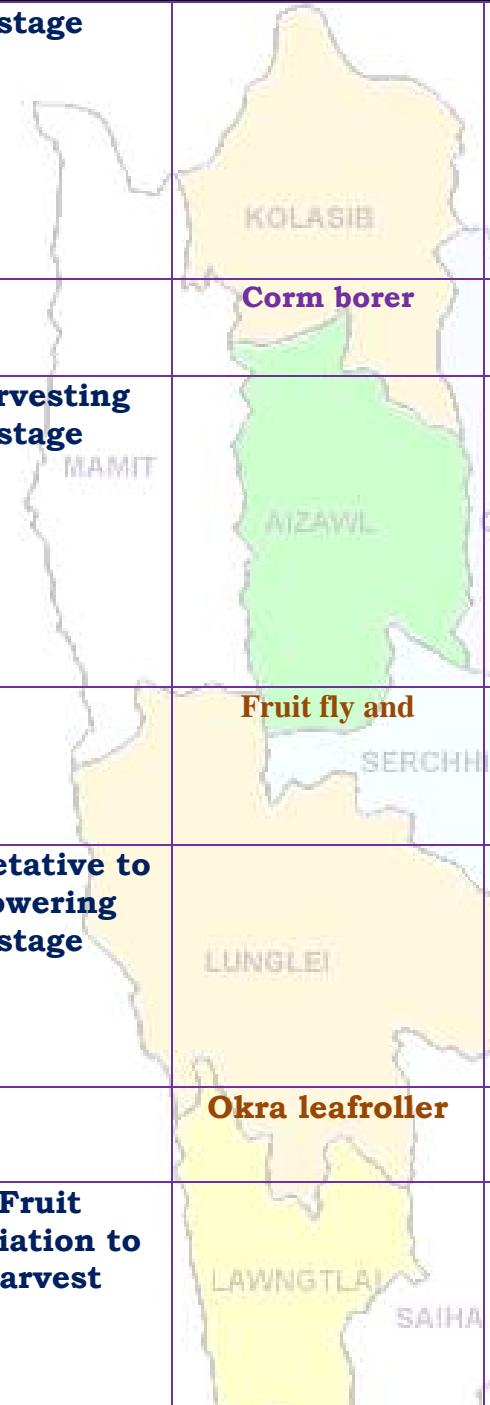
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	stage		
		Corm borer	<ul style="list-style-type: none">the plant and cut dead branches.Earthing up soil at base of the plant along with split doses of fertilizer.Proper drainage is required to avoid water logging.Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Cucurbitaceo us crop	Harvesting stage	Aizawl	<ul style="list-style-type: none">Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split applicationWeeding 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 and	<ul style="list-style-type: none">In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Vegetative to flowering stage	Lunglei	<ul style="list-style-type: none">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	<ul style="list-style-type: none">Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Cowpea	Fruit initiation to harvest	Lawngtlai	<ul style="list-style-type: none">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



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			beneficial for both reducing the weed and increasing the yield. <ul style="list-style-type: none">■ Harvest all mature fruit.
Brinjal	Fruit initiation to harvest		<ul style="list-style-type: none">■ 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.
			<ul style="list-style-type: none">■ 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.
			<ul style="list-style-type: none">■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	Transplanting stage		<ul style="list-style-type: none">■ Select disease free seedling with 3-5 leaf stage.■ Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution.■ Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops.■ Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Pre kharif Rice	Maximum tillering stage		<ul style="list-style-type: none">■ Remove unwanted plant by hand weeding.■ Apply split dose of fertilizer.■ Proper drainage is required to avoid water logging
			<ul style="list-style-type: none">■ 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.



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Maize	Tassling and silking stage		<ul style="list-style-type: none"> ■ Remove unwanted plant near base of the plant and cut dead branches. ■ Earthing up of soil along with fertilizer mixture. ■ Apply split dose of fertilizer.
		Maize cob borer	<ul style="list-style-type: none"> ■ 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		<ul style="list-style-type: none"> ■ Remove unwanted plant near base of the plant and cut dead branches. ■ Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. ■ Earthing up of soil along with fertilizer mixture.
		Turmeric shoot borer	<ul style="list-style-type: none"> ■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif pulses (Green gram, Black gram and Rajma)	Flower initiation stage		<ul style="list-style-type: none"> ■ Remove unwanted plant from the base of the plant. ■ Earthing up near base of the plant. ■ Remove all infected pant and burn it.
		Aphid and bug	<ul style="list-style-type: none"> ■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol style="list-style-type: none"> 1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	<ol style="list-style-type: none"> 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)	<ul style="list-style-type: none"> • FMD vaccine at 16 week and repeat every



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	Young stage	Black Quarter (BQ)	6 month.
Poultry	Adult stage	Ranikhet Disease.	<ul style="list-style-type: none">• Black Quarter Vaccine (BQV).❖ Primary vaccination 6 month or above❖ Revaccination annually
	Early stage	Coccidiosis	<ul style="list-style-type: none">• F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.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: 23 July - 27 July, 2016

Bulletin No: - 621/2016/ Bulletin/Mizo

Date of issue: 22th July, 2016

Parameters	23.07.2016	24.07.2016	25.07.2016	26.07.2016	27.07.2016
Rainfall (mm)	8	9	10	7	4
Max Temp (°C)	32	32	32	32	32
Min Temp (°C)	25	25	25	26	26
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	Mainly clear
Max RH (%)	99	100	99	100	100
Min RH (%)	67	66	94	95	72
Wind Speed (KmPH)	2	2	2	2	2
*Wind Direction	E	S-E	E	S-E	E

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

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

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

Ni thum kalta sik leh sa dinhmun tlangpui	23 th – 27 th June, 2016 chhunga sik leh sa dinhmun tur tlangpui
	Ni 5 lo awm turah hian ruahui tam vak lo a tlak beisei a ni. Khua a lum lai berin 32°C a ni ang a. A vawh lai berin 25-26°C ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 66-95% 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: 38.0mm

NDVI for Mizoram	<p>Extremely wet condition of soil moisture is observed over entire districts of North-East Region.</p>	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	<p style="text-align: center;">KOLASIB MAMIT AIZAWL CHAMPAI SERCHHIP LUNGLEI LAWNGTLAI SAIHA</p>	<ul style="list-style-type: none"> ⊕ 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	<ul style="list-style-type: none"> ⊕ 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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			<p>vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.</p> <ul style="list-style-type: none"> ■ 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	Par a chhuah hma		<ul style="list-style-type: none"> ■ A kung bul vel tihfai a, a zar tangkai lo/zar ro te pahi tur a ni. ■ Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni. ■ Micro-nutrients (zinc, copper, boron, manganese, iron leh molybdenum) te hi pek thin tur an ni. Pek that loh chuan huan pumpui chhiatna a thlen thei a ni. ■ Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.
Balhla	A par lai		<ul style="list-style-type: none"> ■ Balhla kung bul vel ■ tihfai a a hnah ro te thlak bawk tur. ■ Kung khatah 600:200:100 (NPK) hi hmun hniah 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.
			<ul style="list-style-type: none"> ■ 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



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		Banana panama wilt	ber a ni tlangpui).
	A hmin hun	KOLASIB	<ul style="list-style-type: none"> ■ 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.
	MAMIT	Banana fruit caterpillar	<ul style="list-style-type: none"> ■ 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 hnahn chung ber a ro tan thin.
Sapthei	Par a chhuah hma	AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> ■ Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin) emaw fipronil (Over N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur. ■ A bulhnai vel tihfai that tur. ■ Khaw ro lai chuan a zung bulah lei rihvur a, hnahnah 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	<ul style="list-style-type: none"> ■ 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 par lai	LUNGLEI LAWNGTIA SAIHA	<ul style="list-style-type: none"> ■ Thlaiin hnahn 32 a neih hunah a par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) tlai lamah pek tur. ■ Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. ■ Thlai pakhat ah leitha 60:50:60g (NPK) hi hmun hniah thenin pek tur. ■ Thlai hnahn leh a zar thi te chu



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			paihfai a, hnime te tihfai bawk tur a ni.
	A seng hunlai		<ul style="list-style-type: none"> ⊕ A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni. ⊕ Local market (khawchhunga hrall nghan 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.
Colocasia	Par a chhuah hma		<ul style="list-style-type: none"> ⊕ A bul vel tihfai that a, a zar 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 hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.
			<ul style="list-style-type: none"> ⊕ 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		<ul style="list-style-type: none"> ⊕ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ⊕ Tuthlawh hmangin hnime thlawn 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.
			<ul style="list-style-type: none"> ⊕ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrhsaiabe	A par hma deuh atang a par thleng		<ul style="list-style-type: none"> ⊕ A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni.



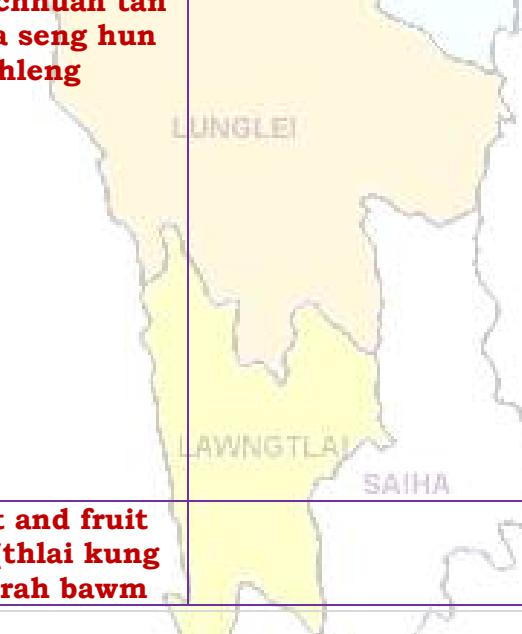
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			<ul style="list-style-type: none">■ A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni.■ Ruahtui tling a awm loh nan tui luankawr mumal siam tur a ni.■ A rah puitling apiang seng zel tur a ni. <p>Okra leafroller</p> <ul style="list-style-type: none">■ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Behlawi	Rah a chhuah tan atanga seng hun thleng		<ul style="list-style-type: none">■ A bul vel tihfai that a, a zar tangkai lo ho pahi 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 hnime 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		<ul style="list-style-type: none">■ A bul vel tihfai that a, a zar tangkai lo ho pahi tur.■ Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnime to tam tur a veng.■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, thlai thang a tichak bawk.■ Ram Hactare khata zauah leitha Urea 50kg hi hmun hniah thenin vawihnih phul tur a ni.■ A rah puitling apiang seng zel tur.
	Shoot and fruit borer (thlai kung leh a rah bawm		<ul style="list-style-type: none">■ Natna in a tihchhiat tawh thlai peng lakthlak a pahi tur.■ Rannung hlo imidacloprid 0.5ml



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	chi rannung)		emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
		Brinjal leaf beetle 	<ul style="list-style-type: none"> ■ 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 		<ul style="list-style-type: none"> ■ Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur. ■ Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur. ■ Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Pre-Kharif rice (Buh fur hma hreta chin chi)	A peng insiamtur zawng zawng insiam zawn hnu lawk 		<ul style="list-style-type: none"> ■ 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 	<ul style="list-style-type: none"> ■ Buh tiak a a hnah hmawr tanbun tur. ■ Natna kai tawhna peng te lakthlak a, pah 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.
Vaimim	A kawm insiam leh a sam rawn chhuah hunlai 		<ul style="list-style-type: none"> ■ A bul vela hnim leh thlaidang lo to ve palh te pah a, a hnah rote pah bawk tur. ■ Leitha nen rihvur tur. ■ Natna kai ho lakkhawma halral tur.
Sawhthing leh Aieng	Par a chhuah hma 		<ul style="list-style-type: none"> ■ Thlai hnah, a tang ro leh hnim te chu pahfai vek tur. ■ Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i



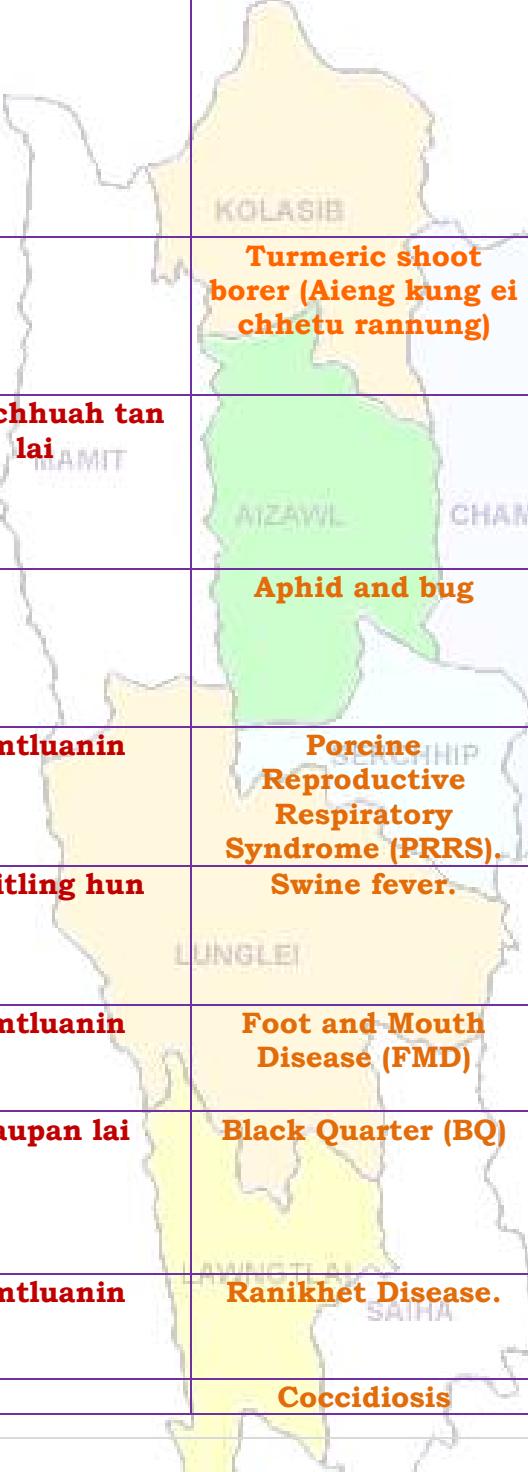
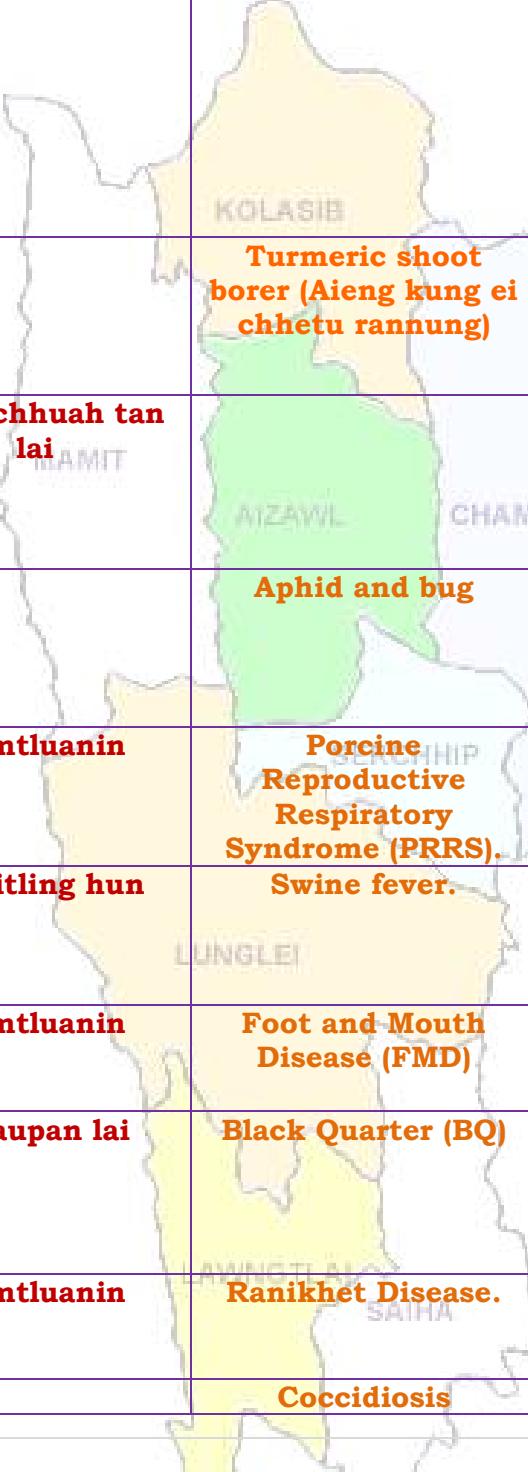
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			tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kgai ha ⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha ⁻¹ , Pendimethalin (Stomp) @ 1-1.5kg a.i ha ⁻¹ te hian hnimhnah lian lampang chi a veng a ni.
		Turmeric shoot borer (Aieng kung ei chhetu rannung)	<ul style="list-style-type: none"> ✚ Rannung hlo imidacloprid 0.5ml emaw phosalone 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 tan lai		<ul style="list-style-type: none"> ✚ A bul vela hnim leh thlaidang lo to ve te that a pahi tur. ✚ A kung bulah rih vur tur. ✚ Natna kai tawh thlai te lakkhawm a halral tur.
		Aphid and bug	<ul style="list-style-type: none"> ✚ Rannung hlo imidacloprid 0.5ml emaw phosalone 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).	<ol style="list-style-type: none"> 1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	<ol style="list-style-type: none"> 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)	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> ✚ Thla ruk an tlin hunah vaccine lak tan tur. ✚ Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	<ol style="list-style-type: none"> 1. Ar note an pian hlimin F₁ vaccine pek tur a nia an puitlin hunah R₂B pek leh tur a ni. 2. Amprolium emaw coccidiostat pek
		Coccidiosis	



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District: Aizawl

Period: 23 July - 27 July, 2016

Bulletin No: - 621/2016/ Bulletin/Mizo

Date of issue: 22th July, 2016

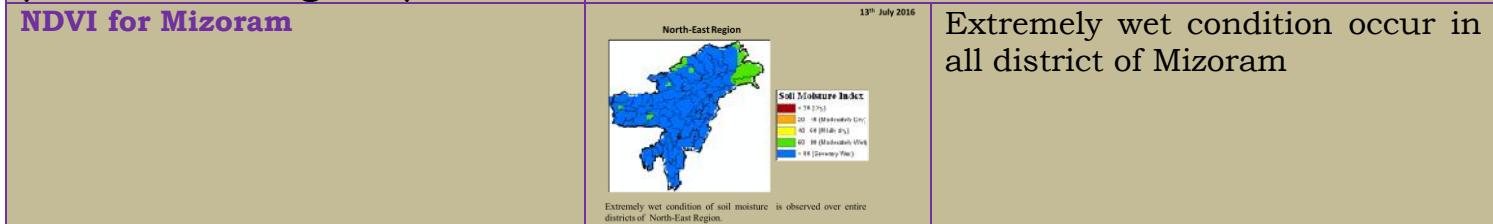
Parameters	23.07.2016	24.07.2016	25.07.2016	26.07.2016	27.07.2016
Rainfall (mm)	6	10	16	9	3
Max Temp (°C)	28	28	28	29	29
Min Temp (°C)	23	23	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	99	100	99
Min RH (%)	58	77	94	96	76
Wind Speed (KmPH)	3	3	3	2	2
*Wind Direction	S-E	S-E	S-E	E	S-E

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

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

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

Ni thum kalta sik leh sa dinhmun tlangpui	23 th - 27 th June, 2016 chhunga sik leh sa dinhmun tur tlangpui
<p>Khua a lum lai berin 22.5-24.7°C leh a vawh lai berin 18.4-19.3°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 79-89% a ni a, a hniam lai berin 48-86% ani. Ni 3 kal ta chhung a ruah tla zat chu 37.30 mm a ni.</p> <p>(Source- Mosdac.gov.in)</p>	<p>Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 28-29°C a ni ang a. A vawh lai berin 23°C ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 58-94% 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.</p> <p style="text-align: center;">Weekly cumulative rainfall: 44.0mm</p>





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*(Prepared based on District wise Weather Forecast received from IMD,
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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	<p style="text-align: center;">KOLASIB MAMIT AIZAWL CHAMPAI SERCHHIP LUNGLEI LAWNGTLAI SAIHA</p>	<ul style="list-style-type: none"> ⊕ 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 zawah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.
		Citrus Cancar	<ul style="list-style-type: none"> ⊕ 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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			<p>vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.</p> <ul style="list-style-type: none"> ■ 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	Par a chhuah hma		<ul style="list-style-type: none"> ■ A kung bul vel tihfai a, a zar tangkai lo/zar ro te pahi tur a ni. ■ Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni. ■ Micro-nutrients (zinc, copper, boron, manganese, iron leh molybdenum) te hi pek thin tur an ni. Pek that loh chuan huan pumpui chhiatna a thlen thei a ni. ■ Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.
Balhla	A par lai		<ul style="list-style-type: none"> ■ Balhla kung bul vel ■ tihfai a a hnah ro te thlak bawk tur. ■ Kung khatah 600:200:100 (NPK) hi hmun hniah 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.
			<ul style="list-style-type: none"> ■ 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



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		Banana panama wilt	ber a ni tlangpui).
	A hmin hun	KOLASIB	<ul style="list-style-type: none"> ■ 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.
	MAMIT	Banana fruit caterpillar	<ul style="list-style-type: none"> ■ 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 hnahn chung ber a ro tan thin.
Sapthei	Par a chhuah hma	AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> ■ Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin) emaw fipronil (Over N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur. ■ A bulhnai vel tihfai that tur. ■ Khaw ro lai chuan a zung bulah lei rihvur a, hnahnah 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	<ul style="list-style-type: none"> ■ 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 par lai	LUNGLEI LAWNGTIA SAIHA	<ul style="list-style-type: none"> ■ Thlaiin hnahn 32 a neih hunah a par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) tlai lamah pek tur. ■ Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. ■ Thlai pakhat ah leitha 60:50:60g (NPK) hi hmun hniah thenin pek tur. ■ Thlai hnahn leh a zar thi te chu



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			paihfai a, hnime te tihfai bawk tur a ni.
	A seng hunlai		<ul style="list-style-type: none"> ⊕ A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni. ⊕ Local market (khawchhunga hrakh nghan 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.
Colocasia	Par a chhuah hma		<ul style="list-style-type: none"> ⊕ A bul vel tihfai that a, a zar 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 hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.
			<ul style="list-style-type: none"> ⊕ 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		<ul style="list-style-type: none"> ⊕ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ⊕ Tuthlawh hmangin hnime thlawn 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.
			<ul style="list-style-type: none"> ⊕ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrhsaiabe	A par hma deuh atang a par thleng		<ul style="list-style-type: none"> ⊕ A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni.



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			<ul style="list-style-type: none"> ■ A kung bul rihvur tur a ni a, leitha vawi hniih 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. <p>Okra leafroller</p> <ul style="list-style-type: none"> ■ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Behlawi	Rah a chhuah tan atanga seng hun thleng		<ul style="list-style-type: none"> ■ A bul vel tihfai that a, a zar tangkai lo ho pahi 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 hnime 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		<ul style="list-style-type: none"> ■ A bul vel tihfai that a, a zar tangkai lo ho pahi tur. ■ Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnime to tam tur a veng. ■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, thlai thang a tichak bawk. ■ Ram Hactare khata zauah leitha Urea 50kg hi hmun hniah thenin vawihnih phul tur a ni. ■ A rah puitling apiang seng zel tur.
	Shoot and fruit borer (thlai kung leh a rah bawm)		<ul style="list-style-type: none"> ■ Natna in a tihchhiat tawh thlai peng lakthlak a pahi tur. ■ Rannung hlo imidacloprid 0.5ml



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	chi rannung)		emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
		Brinjal leaf beetle 	<ul style="list-style-type: none"> ■ 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 		<ul style="list-style-type: none"> ■ Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur. ■ Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur. ■ Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Pre-Kharif rice (Buh fur hma hreta chin chi)	A peng insiamtur zawng zawng insiam zagh hnu lawk 		<ul style="list-style-type: none"> ■ 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 	<ul style="list-style-type: none"> ■ Buh tiak a a hnah hmawr tanbun tur. ■ Natna kai tawhna peng te lakthlak a, pah 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.
Vaimim	A kawm insiam leh a sam rawn chhuah hunlai 		<ul style="list-style-type: none"> ■ A bul vela hnim leh thlaidang lo to ve palh te pah a, a hnah rote pah bawk tur. ■ Leitha nen rihvur tur. ■ Natna kai ho lakkhawma halral tur.
Sawhthing leh Aieng	Par a chhuah hma 		<ul style="list-style-type: none"> ■ Thlai hnah, a tang ro leh hnim te chu pahfai vek tur. ■ Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i



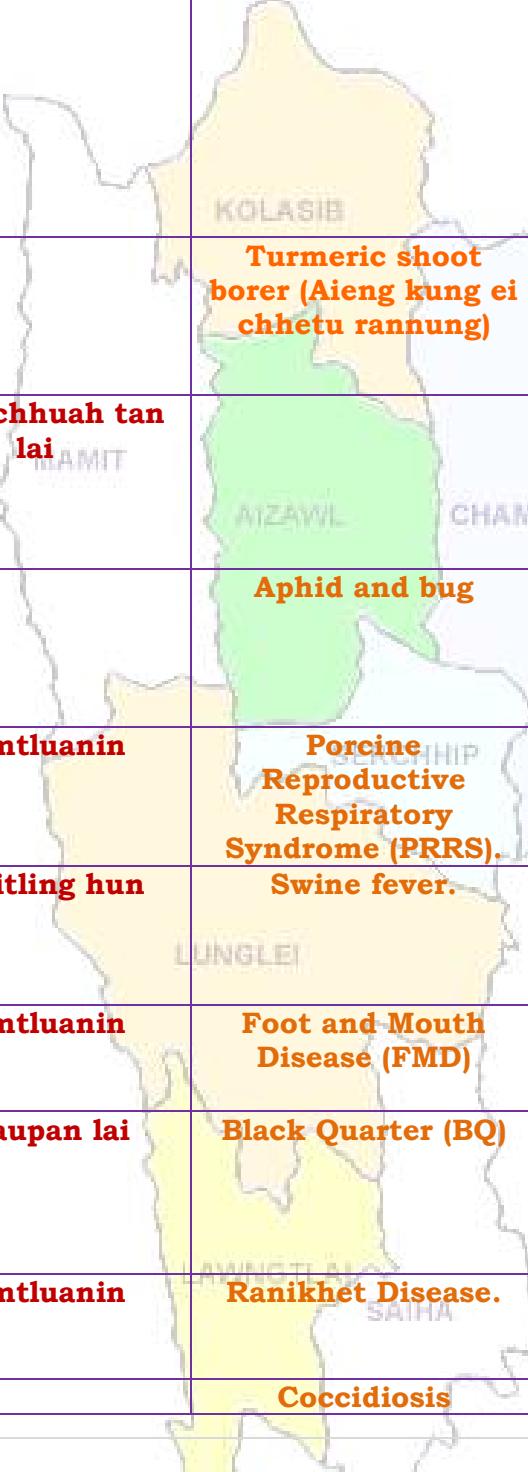
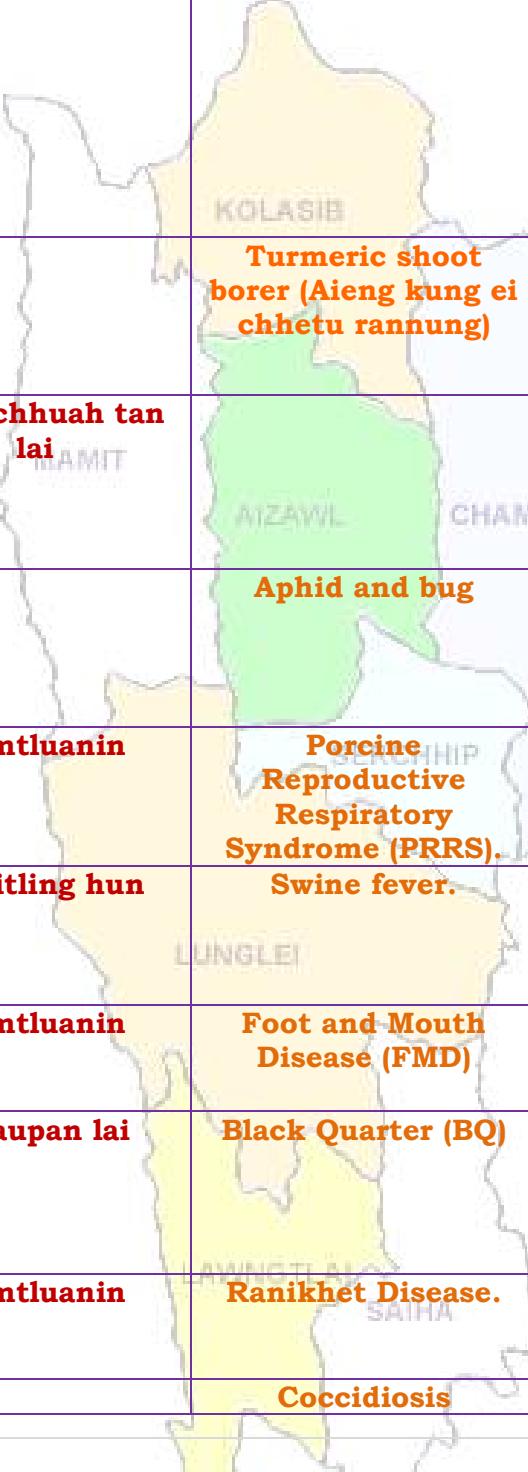
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			tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kgai ha ⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha ⁻¹ , Pendimethalin (Stomp) @ 1-1.5kg a.i ha ⁻¹ te hian hnimhnah lian lampang chi a veng a ni.
		Turmeric shoot borer (Aieng kung ei chhetu rannung)	<ul style="list-style-type: none"> ✚ Rannung hlo imidacloprid 0.5ml emaw phosalone 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 tan lai		<ul style="list-style-type: none"> ✚ A bul vela hnim leh thlaidang lo to ve te that a pahi tur. ✚ A kung bulah rih vur tur. ✚ Natna kai tawh thlai te lakkhawm a halral tur.
		Aphid and bug	<ul style="list-style-type: none"> ✚ Rannung hlo imidacloprid 0.5ml emaw phosalone 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).	<ol style="list-style-type: none"> 1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	<ol style="list-style-type: none"> 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)	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> ✚ Thla ruk an tlin hunah vaccine lak tan tur. ✚ Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	<ol style="list-style-type: none"> 1. Ar note an pian hlimin F₁ vaccine pek tur a nia an puitlin hunah R₂B pek leh tur a ni. 2. Amprolium emaw coccidiostat pek
		Coccidiosis	



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District: Aizawl

Period: 23 July - 27 July, 2016

Bulletin No: - 621/2016/ Bulletin/English

Date of issue: 22th July, 2016

Parameters	23.07.2016	24.07.2016	25.07.2016	26.07.2016	27.07.2016
Rainfall (mm)	6	10	16	9	3
Max Temp (°C)	28	28	28	29	29
Min Temp (°C)	23	23	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	99	100	99
Min RH (%)	58	77	94	96	76
Wind Speed (KmpH)	3	3	3	2	2
*Wind Direction	S-E	S-E	S-E	E	S-E

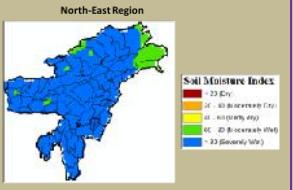
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

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

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

Weather summary of the past three days	Weather forecast valid from 23 th June, 2016 To 27 th June, 2016.
The temperature range for maximum and minimum were 22.5-24.7°C and 18.4-19.3°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 79-89% & minimum of 48-86%. Rainfall recorded for the past three days is 37.30 mm. (Source-mosdac.gov.in)	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 28-29°C and 23°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 58-94%. Wind direction would be southeasterly to easterly and southeasterly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 44.0 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		<ul style="list-style-type: none"> ➡ 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 $\frac{1}{2}$ 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	<ul style="list-style-type: none"> ➡ Copper-based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/l 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	<ul style="list-style-type: none"> ➡ 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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Oil palm	Vegetative stage		<p>coincides with I Fortnight of July.</p> <ul style="list-style-type: none">■ Cleaning near base of the plant and cut unwanted branches.■ Application of split dose of fertilizer 600: 200:100 (g/pt).■ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.■ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Flowering to fruit formation stage		<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ 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		<ul style="list-style-type: none">■ 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



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			<p>fruit drop off easily.</p> <ul style="list-style-type: none">■ The top most leaf starts drying as the bunch matures.■ Colour of fruits or fingers changes from dark green to pale green.
Passion Fruit	Vegetative stage	Banana fruit caterpillar 	<ul style="list-style-type: none">■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.■ 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 	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	Flowering stage		<ul style="list-style-type: none">■ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.■ The flowering emergence will come out after 55-60 days after chemical spraying.■ Apply split doses of fertilizer @ 60: 50:60 g per plant.■ Remove all unwanted leaves, branches and weed near to the plant.
Pineapple	Harvest stage		<ul style="list-style-type: none">■ 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).
Colocasia	Vegetative		<ul style="list-style-type: none">■ Remove unwanted plant near base of



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	stage	Map	Instructions
		KOLASIB	<p>the plant and cut dead branches.</p> <ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceo us crop	Harvesting stage	AIZAWL	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Vegetative to flowering stage	LUNGLEI	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Cowpea	Fruit initiation to harvest	LAWNGTIA	<ul style="list-style-type: none">■ 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



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			beneficial for both reducing the weed and increasing the yield. <ul style="list-style-type: none">■ Harvest all mature fruit.
Brinjal	Fruit initiation to harvest		<ul style="list-style-type: none">■ 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.
			<ul style="list-style-type: none">■ 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.
			<ul style="list-style-type: none">■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	Transplanting stage		<ul style="list-style-type: none">■ Select disease free seedling with 3-5 leaf stage.■ Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution.■ Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops.■ Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Pre kharif Rice	Maximum tillering stage		<ul style="list-style-type: none">■ Remove unwanted plant by hand weeding.■ Apply split dose of fertilizer.■ Proper drainage is required to avoid water logging
			<ul style="list-style-type: none">■ 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.



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Maize	Tassling and silking stage		<ul style="list-style-type: none"> ■ Remove unwanted plant near base of the plant and cut dead branches. ■ Earthing up of soil along with fertilizer mixture. ■ Apply split dose of fertilizer.
		Maize cob borer	<ul style="list-style-type: none"> ■ 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		<ul style="list-style-type: none"> ■ Remove unwanted plant near base of the plant and cut dead branches. ■ Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. ■ Earthing up of soil along with fertilizer mixture.
		Turmeric shoot borer	<ul style="list-style-type: none"> ■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif pulses (Green gram, Black gram and Rajma)	Flower initiation stage		<ul style="list-style-type: none"> ■ Remove unwanted plant from the base of the plant. ■ Earthing up near base of the plant. ■ Remove all infected pant and burn it.
		Aphid and bug	<ul style="list-style-type: none"> ■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol style="list-style-type: none"> 1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	<ol style="list-style-type: none"> 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)	<ul style="list-style-type: none"> • FMD vaccine at 16 week and repeat every



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	Young stage	Black Quarter (BQ)	6 month.
Poultry	Adult stage	Ranikhet Disease.	<ul style="list-style-type: none">• Black Quarter Vaccine (BQV).❖ Primary vaccination 6 month or above❖ Revaccination annually
	Early stage	Coccidiosis	<ul style="list-style-type: none">• F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.1. Amprolium or coccidiostat





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District: Champhai

Period: 23 July - 27 July, 2016

Bulletin No: - 621/2016/ Bulletin/English

Date of issue: 22th July, 2016

Parameters	23.07.2016	24.07.2016	25.07.2016	26.07.2016	27.07.2016
Rainfall (mm)	7	10	15	10	5
Max Temp (°C)	30	30	30	30	31
Min Temp (°C)	24	24	24	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	99	99	98	97
Min RH (%)	65	73	92	92	72
Wind Speed (KmpH)	2	3	2	2	3
*Wind Direction	S-E	S	S	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	Weather forecast valid from 23 th June, 2016 To 27 th June, 2016.
The temperature range for maximum and minimum were 23.1-27.6°C and 19.5-21.7°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 93-99% & minimum of 48-78%. Rainfall recorded for the past three days is 24.60 mm. (Source-mosdac.gov.in)	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 30-31°C and 24-25°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 65-92%. Wind direction would be southeasterly to southerly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 47.0 mm

NDVI for Mizoram	 <p style="text-align: center;">North-East Region</p> <p style="text-align: center;">Soil Moisture Index</p> <ul style="list-style-type: none"> -23 (-25) - Very dry (Very dry) -10 (-15) - Dry (Dry) 0 (-10) - Normal (Normal) 10 (20) - Wet (Wet) 20 (30) - Extremely wet (Extremely wet) <p style="text-align: center;">Extremely wet condition of soil moisture is observed over entire districts of North-East Region.</p>
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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		<ul style="list-style-type: none"> ➡ 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 $\frac{1}{2}$ 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	<ul style="list-style-type: none"> ➡ Copper-based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/l 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	<ul style="list-style-type: none"> ➡ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which



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Oil palm	Vegetative stage		<p>coincides with I Fortnight of July.</p> <ul style="list-style-type: none">■ Cleaning near base of the plant and cut unwanted branches.■ Application of split dose of fertilizer 600: 200:100 (g/pt).■ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.■ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Flowering stage		<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ 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		<ul style="list-style-type: none">■ 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



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			<p>fruit drop off easily.</p> <ul style="list-style-type: none">■ The top most leaf starts drying as the bunch matures.■ Colour of fruits or fingers changes from dark green to pale green.
Passion Fruit	Vegetative stage	Banana fruit caterpillar 	<ul style="list-style-type: none">■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.■ 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 	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	Flowering stage		<ul style="list-style-type: none">■ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.■ The flowering emergence will come out after 55-60 days after chemical spraying.■ Apply split doses of fertilizer @ 60: 50:60 g per plant.■ Remove all unwanted leaves, branches and weed near to the plant.
Pineapple	Harvest stage		<ul style="list-style-type: none">■ 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).
Colocasia	Vegetative		<ul style="list-style-type: none">■ Remove unwanted plant near base of



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	stage		
		KOLASIB	<p>the plant and cut dead branches.</p> <ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceo us crop	Harvesting stage	AIZAWL	<ul style="list-style-type: none">■ 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.
		SERCHHIP	<ul style="list-style-type: none">■ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Vegetative to flowering stage	LUNGLEI	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Cowpea	Fruit initiation to harvest	LAWNGTLAI SAIHA	<ul style="list-style-type: none">■ 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



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			beneficial for both reducing the weed and increasing the yield. <ul style="list-style-type: none">■ Harvest all mature fruit.
Brinjal	Fruit initiation to harvest		<ul style="list-style-type: none">■ 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.
			<ul style="list-style-type: none">■ 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.
			<ul style="list-style-type: none">■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	Transplanting stage		<ul style="list-style-type: none">■ Select disease free seedling with 3-5 leaf stage.■ Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution.■ Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops.■ Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Pre kharif Rice	Maximum tillering stage		<ul style="list-style-type: none">■ Remove unwanted plant by hand weeding.■ Apply split dose of fertilizer.■ Proper drainage is required to avoid water logging
			<ul style="list-style-type: none">■ 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.



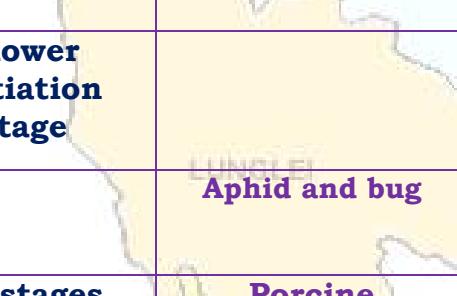
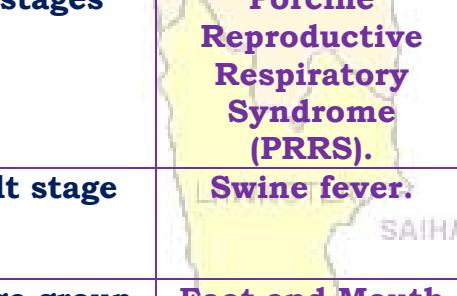
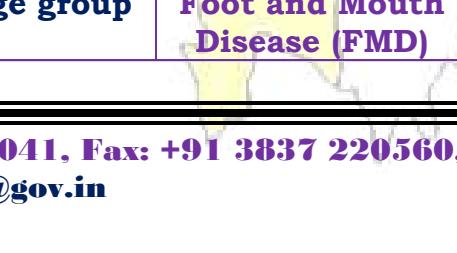
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Maize	Tassling and silking stage		<ul style="list-style-type: none"> ■ Remove unwanted plant near base of the plant and cut dead branches. ■ Earthing up of soil along with fertilizer mixture. ■ Apply split dose of fertilizer.
		Maize cob borer KOLASIB	<ul style="list-style-type: none"> ■ 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		<ul style="list-style-type: none"> ■ Remove unwanted plant near base of the plant and cut dead branches. ■ Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. ■ Earthing up of soil along with fertilizer mixture.
		Turmeric shoot borer SERCHHIP	<ul style="list-style-type: none"> ■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif pulses (Green gram, Black gram and Rajma)	Flower initiation stage		<ul style="list-style-type: none"> ■ Remove unwanted plant from the base of the plant. ■ Earthing up near base of the plant. ■ Remove all infected pant and burn it.
		Aphid and bug LUNGLEI SAJAK SAJHA	<ul style="list-style-type: none"> ■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pig	All stages		<ol style="list-style-type: none"> 1. Culling of positive pigs or piglets.
	Adult stage	Swine fever. SAJAK SAJHA	<ol style="list-style-type: none"> 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) 	<ul style="list-style-type: none"> • FMD vaccine at 16 week and repeat every



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	Young stage	Black Quarter (BQ)	6 month.
Poultry	Adult stage	Ranikhet Disease.	<ul style="list-style-type: none">• Black Quarter Vaccine (BQV).❖ Primary vaccination 6 month or above❖ Revaccination annually
	Early stage	Coccidiosis	<ul style="list-style-type: none">• F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.1. Amprolium or coccidiostat





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District: Champhai

Period: 23 July - 27 July, 2016

Bulletin No: - 621/2016/ Bulletin/Mizo

Date of issue: 22th July, 2016

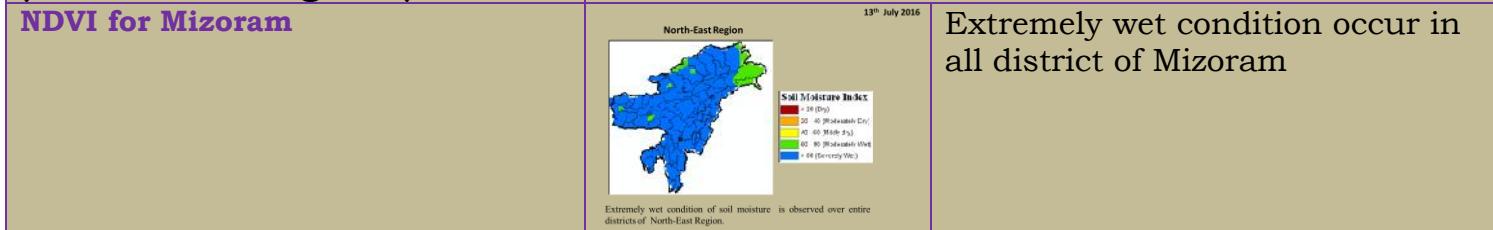
Parameters	23.07.2016	24.07.2016	25.07.2016	26.07.2016	27.07.2016
Rainfall (mm)	7	10	15	10	5
Max Temp (°C)	30	30	30	30	31
Min Temp (°C)	24	24	24	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	99	99	98	97
Min RH (%)	65	73	92	92	72
Wind Speed (KmPH)	2	3	2	2	3
*Wind Direction	S-E	S	S	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	23th – 27th June, 2016 chhunga sik leh sa dinhmun tur tlangpui		
Khua a lum lai berin 23.1-27.6°C leh a vawh lai berin 19.5-21.7°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 93-99% a ni a, a hniam lai berin 48-78% ani. Ni 3 kal ta chhung a ruah tla zat chu 24.60 mm a ni. (Source- Mosdac.gov.in)	Ni 5 lo awm turah hian ruah tui tam vak lo a tlak beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai berin 24-25°C ni tura beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 65-92% 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.		





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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	<p style="text-align: center;">KOLASIB MAMIT AIZAWL CHAMPAI SERCHHIP LUNGLEI LAWNGTLAI SAIHA</p>	<ul style="list-style-type: none"> ⊕ 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 zawah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.
		Citrus Cancar	<ul style="list-style-type: none"> ⊕ 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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			<p>vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.</p>
Oil Palm	Par a chhuah hma		<ul style="list-style-type: none"> ⊕ 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). ⊕ A kung bul vel tihfai a, a zar tangkai lo/zar ro te pahi tur a ni. ⊕ Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni. ⊕ Micro-nutrients (zinc, copper, boron, manganese, iron leh molybdenum) te hi pek thin tur an ni. Pek that loh chuan huan pumpui chhiatna a thlen thei a ni. ⊕ Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.
Balhla	A par lai		<ul style="list-style-type: none"> ⊕ Balhla kung bul vel ⊕ tihfai a a hnah ro te thlak bawk tur. ⊕ Kung khatah 600:200:100 (NPK) hi hmun hniah 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.
			<ul style="list-style-type: none"> ⊕ 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



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		Banana panama wilt	ber a ni tlangpui).
	A hmin hun	KOLASIB	<ul style="list-style-type: none"> ■ 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.
	MAMIT	Banana fruit caterpillar	<ul style="list-style-type: none"> ■ 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 hnahn chung ber a ro tan thin.
Sapthei	Par a chhuah hma	AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> ■ Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin) emaw fipronil (Over N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur. ■ A bulhnai vel tihfai that tur. ■ Khaw ro lai chuan a zung bulah lei rihvur a, hnahnah 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	<ul style="list-style-type: none"> ■ 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 par lai	LUNGLEI LAWNGTIA SAIHA	<ul style="list-style-type: none"> ■ Thlaiin hnahn 32 a neih hunah a par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) tlai lamah pek tur. ■ Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. ■ Thlai pakhat ah leitha 60:50:60g (NPK) hi hmun hniah thenin pek tur. ■ Thlai hnahn leh a zar thi te chu



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			paihfai a, hnime te tihfai bawk tur a ni.
	A seng hunlai		<ul style="list-style-type: none"> ⊕ A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni. ⊕ Local market (khawchhunga hrakh nghan 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.
Colocasia	Par a chhuah hma		<ul style="list-style-type: none"> ⊕ A bul vel tihfai that a, a zar 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 hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.
			<ul style="list-style-type: none"> ⊕ 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		<ul style="list-style-type: none"> ⊕ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ⊕ Tuthlawh hmangin hnime thlawn 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.
			<ul style="list-style-type: none"> ⊕ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrhsaiabe	A par hma deuh atang a par thleng		<ul style="list-style-type: none"> ⊕ A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni.



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			<ul style="list-style-type: none">■ A kung bul rihvur tur a ni a, leitha vawi hniih 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. <p>Okra leafroller</p> <ul style="list-style-type: none">■ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Behlawi	Rah a chhuah tan atanga seng hun thleng		<ul style="list-style-type: none">■ A bul vel tihfai that a, a zar tangkai lo ho pahi 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 hnime 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		<ul style="list-style-type: none">■ A bul vel tihfai that a, a zar tangkai lo ho pahi tur.■ Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnime to tam tur a veng.■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, thlai thang a tichak bawk.■ Ram Hactare khata zauah leitha Urea 50kg hi hmun hniih thenin vawihnih phul tur a ni.■ A rah puitling apiang seng zel tur.
	Shoot and fruit borer (thlai kung leh a rah bawm		<ul style="list-style-type: none">■ Natna in a tihchhiat tawh thlai peng lakthlak a pahi tur.■ Rannung hlo imidacloprid 0.5ml



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	chi rannung)		emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
		Brinjal leaf beetle 	<ul style="list-style-type: none"> ■ 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 		<ul style="list-style-type: none"> ■ Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur. ■ Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur. ■ Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Pre-Kharif rice (Buh fur hma hreta chin chi)	A peng insiamtur zawng zawng insiam zawn hnu lawk 		<ul style="list-style-type: none"> ■ 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 	<ul style="list-style-type: none"> ■ Buh tiak a a hnah hmawr tanbun tur. ■ Natna kai tawhna peng te lakthlak a, pah 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.
Vaimim	A kawm insiam leh a sam rawn chhuah hunlai 		<ul style="list-style-type: none"> ■ A bul vela hnim leh thlaidang lo to ve palh te pah a, a hnah rote pah bawk tur. ■ Leitha nen rihvur tur. ■ Natna kai ho lakkhawma halral tur.
Sawhthing leh Aieng	Par a chhuah hma 		<ul style="list-style-type: none"> ■ Thlai hnah, a tang ro leh hnim te chu pahfai vek tur. ■ Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i



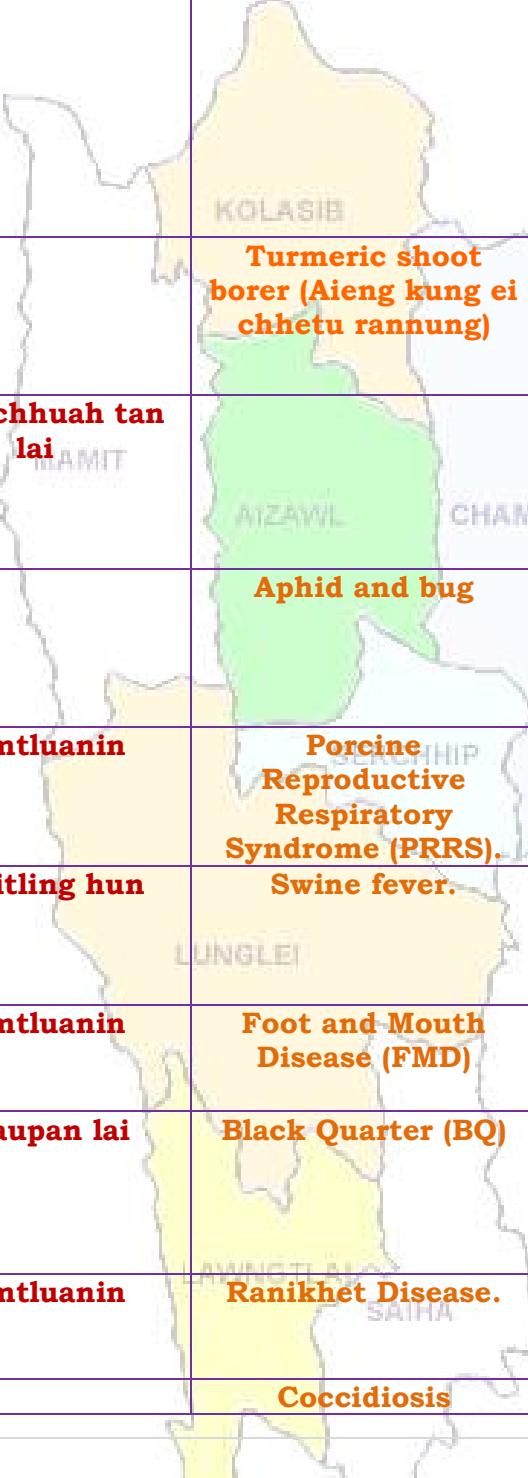
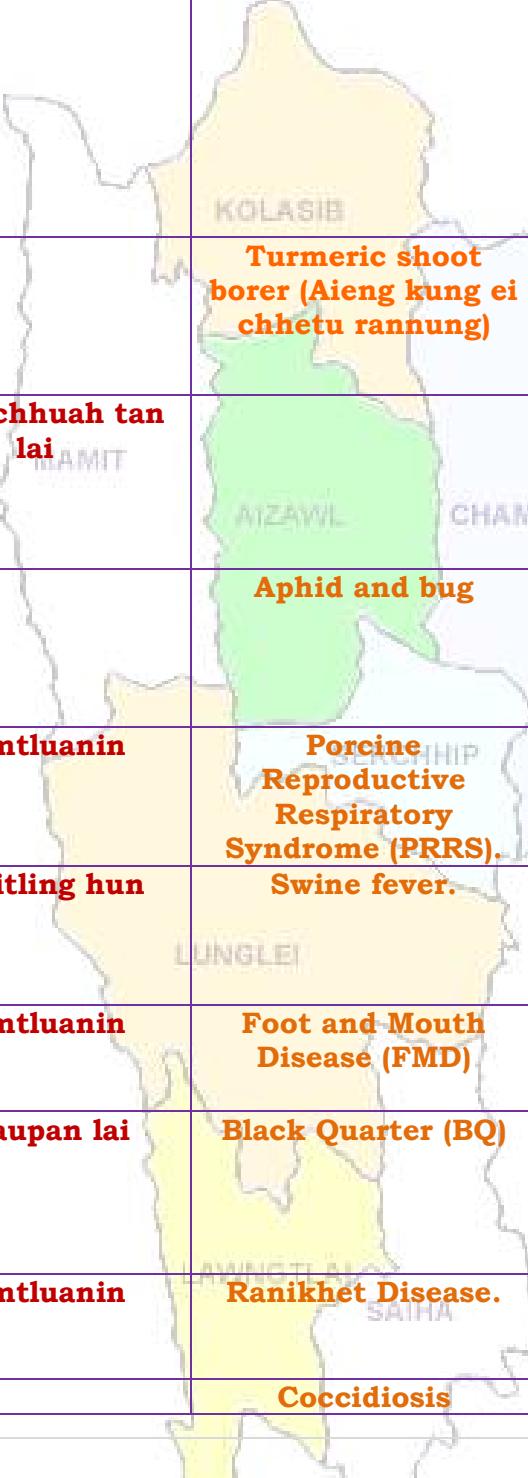
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			tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kgai ha ⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha ⁻¹ , Pendimethalin (Stomp) @ 1-1.5kg a.i ha ⁻¹ te hian hnimhnah lian lampang chi a veng a ni.
		Turmeric shoot borer (Aieng kung ei chhetu rannung)	<ul style="list-style-type: none"> ✚ Rannung hlo imidacloprid 0.5ml emaw phosalone 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 tan lai		<ul style="list-style-type: none"> ✚ A bul vela hnim leh thlaidang lo to ve te that a pahi tur. ✚ A kung bulah rih vur tur. ✚ Natna kai tawh thlai te lakkhawm a halral tur.
		Aphid and bug	<ul style="list-style-type: none"> ✚ Rannung hlo imidacloprid 0.5ml emaw phosalone 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).	<ol style="list-style-type: none"> 1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	<ol style="list-style-type: none"> 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)	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> ✚ Thla ruk an tlin hunah vaccine lak tan tur. ✚ Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	<ol style="list-style-type: none"> 1. Ar note an pian hlimin F₁ vaccine pek tur a nia an puitlin hunah R₂B pek leh tur a ni. 2. Amprolium emaw coccidiostat pek
		Coccidiosis	



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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: 23 July - 27 July, 2016

Bulletin No: - 621/2016/ Bulletin/English

Date of issue: 22th July, 2016

Parameters	23.07.2016	24.07.2016	25.07.2016	26.07.2016	27.07.2016
Rainfall (mm)	9	12	20	8	3
Max Temp (°C)	30	30	30	31	31
Min Temp (°C)	24	24	24	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	99	100	98
Min RH (%)	58	81	94	97	76
Wind Speed (KmpH)	4	4	3	0	2
*Wind Direction	S-E	S-E	S-E	E	S-E

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

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

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

Weather summary of the past three days	Weather forecast valid from 23 th June, 2016 To 27 th June, 2016.
The temperature range for maximum and minimum were 28.5-29.6°C and 22.5-23.4°C respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 91-92% & minimum of 84-96%. Rainfall recorded for the past three days is 11.60 mm. (Source-mosdac.gov.in)	There are chances of heavy to moderate and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-31°C and 24-25°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 58-94%. Wind direction would be southeasterly to easterly and southeasterly with the wind speed of 0-4 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		<ul style="list-style-type: none"> ➡ 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 $\frac{1}{2}$ 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	<ul style="list-style-type: none"> ➡ Copper-based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/l 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	<ul style="list-style-type: none"> ➡ 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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Oil palm	Vegetative stage		<p>coincides with I Fortnight of July.</p> <ul style="list-style-type: none">■ Cleaning near base of the plant and cut unwanted branches.■ Application of split dose of fertilizer 600: 200:100 (g/pt).■ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.■ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Flowering stage		<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ 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		<ul style="list-style-type: none">■ 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



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			<p>fruit drop off easily.</p> <ul style="list-style-type: none">■ The top most leaf starts drying as the bunch matures.■ Colour of fruits or fingers changes from dark green to pale green.
Passion Fruit	Vegetative stage	Banana fruit caterpillar 	<ul style="list-style-type: none">■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.■ 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 	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	Flowering stage		<ul style="list-style-type: none">■ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.■ The flowering emergence will come out after 55-60 days after chemical spraying.■ Apply split doses of fertilizer @ 60: 50:60 g per plant.■ Remove all unwanted leaves, branches and weed near to the plant.
Pineapple	Harvest stage		<ul style="list-style-type: none">■ 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).
Colocasia	Vegetative		<ul style="list-style-type: none">■ Remove unwanted plant near base of



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	stage	Map	Instructions
		KOLASIB	<p>the plant and cut dead branches.</p> <ul style="list-style-type: none">■ 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	AIZAWL	<ul style="list-style-type: none">■ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceo us crop	Harvesting stage	MAMIT	<ul style="list-style-type: none">■ 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	SERCHHIP	<ul style="list-style-type: none">■ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Vegetative to flowering stage	LUNGLEI	<ul style="list-style-type: none">■ 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	SAIHA	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Cowpea	Fruit initiation to harvest	LAWNGTIA	<ul style="list-style-type: none">■ 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



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			beneficial for both reducing the weed and increasing the yield. <ul style="list-style-type: none">■ Harvest all mature fruit.
Brinjal	Fruit initiation to harvest		<ul style="list-style-type: none">■ 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.
			<ul style="list-style-type: none">■ 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.
			<ul style="list-style-type: none">■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	Transplanting stage		<ul style="list-style-type: none">■ Select disease free seedling with 3-5 leaf stage.■ Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution.■ Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops.■ Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Pre kharif Rice	Maximum tillering stage		<ul style="list-style-type: none">■ Remove unwanted plant by hand weeding.■ Apply split dose of fertilizer.■ Proper drainage is required to avoid water logging
			<ul style="list-style-type: none">■ 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.



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Maize	Tassling and silking stage		<ul style="list-style-type: none"> ■ Remove unwanted plant near base of the plant and cut dead branches. ■ Earthing up of soil along with fertilizer mixture. ■ Apply split dose of fertilizer.
		Maize cob borer	<ul style="list-style-type: none"> ■ 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		<ul style="list-style-type: none"> ■ Remove unwanted plant near base of the plant and cut dead branches. ■ Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. ■ Earthing up of soil along with fertilizer mixture.
		Turmeric shoot borer	<ul style="list-style-type: none"> ■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif pulses (Green gram, Black gram and Rajma)	Flower initiation stage		<ul style="list-style-type: none"> ■ Remove unwanted plant from the base of the plant. ■ Earthing up near base of the plant. ■ Remove all infected pant and burn it.
		Aphid and bug	<ul style="list-style-type: none"> ■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol style="list-style-type: none"> 1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	<ol style="list-style-type: none"> 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)	<ul style="list-style-type: none"> • FMD vaccine at 16 week and repeat every



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	Young stage	Black Quarter (BQ)	6 month.
Poultry	Adult stage	Ranikhet Disease.	<ul style="list-style-type: none">• Black Quarter Vaccine (BQV).❖ Primary vaccination 6 month or above❖ Revaccination annually
	Early stage	Coccidiosis	<ul style="list-style-type: none">• F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.1. Amprolium or coccidiostat





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District: Kolasib

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Date of issue: 22th July, 2016

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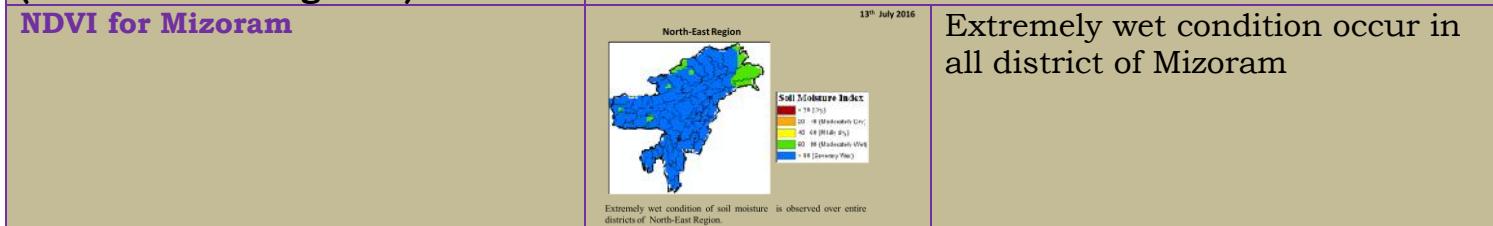
Northerly- **N**, North-Easterly- **N-E**, Easterly- **E**, South-Easterly- **S-E**, Southerly- **S**, South-Westerly- **S-W**, Westerly-**W**, North-westerly- **N-W**.

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	23th – 27th June, 2016 chhunga sik leh sa dinhmun tur tlangpui
Khua a lum lai berin 28.5-29.6°C leh a vawh lai berin 22.5-23.4°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 91-92% a ni a, a hniamp lai berin 84-96% ani. Ni 3 kal ta chhung a ruah tla zat chu 11.60 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 30-31°C a ni ang a. A vawh lai berin 24-25°C ni tura beisei a ni. RH san lai berin 98-100% leh a hniamp lai berin 58-94% ni tur a rin niin. Thli hi darkar khatah 0-4 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: 52.0mm





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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	<p style="text-align: center;">KOLASIB MAMIT AIZAWL CHAMPAI SERCHHIP LUNGLEI LAWNGTLAI SAIHA</p>	<ul style="list-style-type: none"> ⊕ 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 zawah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.
		Citrus Cancar	<ul style="list-style-type: none"> ⊕ 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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			<p>vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.</p> <ul style="list-style-type: none"> ■ 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	Par a chhuah hma		<ul style="list-style-type: none"> ■ A kung bul vel tihfai a, a zar tangkai lo/zar ro te pahi tur a ni. ■ Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni. ■ Micro-nutrients (zinc, copper, boron, manganese, iron leh molybdenum) te hi pek thin tur an ni. Pek that loh chuan huan pumpui chhiatna a thlen thei a ni. ■ Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.
Balhla	A par lai		<ul style="list-style-type: none"> ■ Balhla kung bul vel ■ tihfai a a hnah ro te thlak bawk tur. ■ Kung khatah 600:200:100 (NPK) hi hmun hniah 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.
			<ul style="list-style-type: none"> ■ 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).



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*(Prepared based on District wise Weather Forecast received from IMD,
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		Banana panama wilt	ber a ni tlangpui).
	A hmin hun	KOLASIB	<ul style="list-style-type: none"> ■ 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.
	MAMIT	Banana fruit caterpillar	<ul style="list-style-type: none"> ■ 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 hnahn chung ber a ro tan thin.
Sapthei	Par a chhuah hma	AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> ■ Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin) emaw fipronil (Over N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur. ■ A bulhnai vel tihfai that tur. ■ Khaw ro lai chuan a zung bulah lei rihvur a, hnahnah 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	<ul style="list-style-type: none"> ■ 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 par lai	LUNGLEI LAWNGTIA SAIHA	<ul style="list-style-type: none"> ■ Thlaiin hnahn 32 a neih hunah a par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) tlai lamah pek tur. ■ Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. ■ Thlai pakhat ah leitha 60:50:60g (NPK) hi hmun hniah thenin pek tur. ■ Thlai hnahn leh a zar thi te chu



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			paihfai a, hnime te tihfai bawk tur a ni.
	A seng hunlai		<ul style="list-style-type: none"> ⊕ A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni. ⊕ Local market (khawchhunga hrall nghan 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.
Colocasia	Par a chhuah hma		<ul style="list-style-type: none"> ⊕ A bul vel tihfai that a, a zar 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 hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.
			<ul style="list-style-type: none"> ⊕ 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		<ul style="list-style-type: none"> ⊕ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni. ⊕ Tuthlawh hmangin hnime thlawn 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.
			<ul style="list-style-type: none"> ⊕ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.
Bawrhsaiabe	A par hma deuh atang a par thleng		<ul style="list-style-type: none"> ⊕ A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni.



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			<ul style="list-style-type: none"> ■ A kung bul rihvur tur a ni a, leitha vawi hniih 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. <p>Okra leafroller</p> <ul style="list-style-type: none"> ■ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Behlawi	Rah a chhuah tan atanga seng hun thleng		<ul style="list-style-type: none"> ■ A bul vel tihfai that a, a zar tangkai lo ho pahi 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 hnime 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		<ul style="list-style-type: none"> ■ A bul vel tihfai that a, a zar tangkai lo ho pahi tur. ■ Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnime to tam tur a veng. ■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, thlai thang a tichak bawk. ■ Ram Hactare khata zauah leitha Urea 50kg hi hmun hniah thenin vawihnih phul tur a ni. ■ A rah puitling apiang seng zel tur.
	Shoot and fruit borer (thlai kung leh a rah bawm)		<ul style="list-style-type: none"> ■ Natna in a tihchhiat tawh thlai peng lakthlak a pahi tur. ■ Rannung hlo imidacloprid 0.5ml



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	chi rannung)		emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
		Brinjal leaf beetle 	<ul style="list-style-type: none"> ■ 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 		<ul style="list-style-type: none"> ■ Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur. ■ Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur. ■ Buh phunna tlar leh tlar inkar 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.
Pre-Kharif rice (Buh fur hma hreta chin chi)	A peng insiamtur zawng zawng insiam zawn hnu lawk 		<ul style="list-style-type: none"> ■ 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 	<ul style="list-style-type: none"> ■ Buh tiak a a hnah hmawr tanbun tur. ■ Natna kai tawhna peng te lakthlak a, pah 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.
Vaimim	A kawm insiam leh a sam rawn chhuah hunlai 		<ul style="list-style-type: none"> ■ A bul vela hnim leh thlaidang lo to ve palh te pah a, a hnah rote pah bawk tur. ■ Leitha nen rihvur tur. ■ Natna kai ho lakkhawma halral tur.
Sawhthing leh Aieng	Par a chhuah hma 		<ul style="list-style-type: none"> ■ Thlai hnah, a tang ro leh hnim te chu pahfai vek tur. ■ Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i



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		Turmeric shoot borer (Aieng kung ei chhetu rannung)	<ul style="list-style-type: none"> ■ Rannung hlo imidacloprid 0.5ml emaw phosalone 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 tan lai		<ul style="list-style-type: none"> ■ A bul vela hnim leh thlaidang lo to ve te that a pahi tur. ■ A kung bulah rih vur tur. ■ Natna kai tawh thlai te lakkhawm a halral tur.
		Aphid and bug	<ul style="list-style-type: none"> ■ Rannung hlo imidacloprid 0.5ml emaw phosalone 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).	<ol style="list-style-type: none"> 1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	<ol style="list-style-type: none"> 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)	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> ■ Thla ruk an tlin hunah vaccine lak tan tur. ■ Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	<ol style="list-style-type: none"> 1. Ar note an pian hlimin F₁ vaccine pek tur a nia an puitlin hunah R₂B pek leh tur a ni. 2. Amprolium emaw coccidiostat pek
		Coccidiosis	



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District: Lawngtlai

Period: 23 July - 27 July, 2016

Bulletin No: - 621/2016/ Bulletin/English

Date of issue: 22th July, 2016

Parameters	23.07.2016	24.07.2016	25.07.2016	26.07.2016	27.07.2016
Rainfall (mm)	4	7	10	19	7
Max Temp (°C)	30	30	29	29	31
Min Temp (°C)	24	24	25	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	95	95	96	97	97
Min RH (%)	74	61	84	92	68
Wind Speed (KmPH)	4	4	4	2	3
*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 23 th June, 2016 To 27 th June, 2016.
	<p>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 29-31°C and 24-25°C. Maximum relative humidity is expected in the range of 95-97% and minimum may from 61-92%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.</p> <p style="text-align: center;">Weekly cumulative rainfall: 47.0 mm</p>

NDVI for Mizoram	<p style="font-size: small;">Extremely wet condition of soil moisture is observed over entire districts of North-East Region.</p>	13 th	Extremely wet condition occur in all district of Mizoram
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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
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Animal / Fisheries	practices/ Pest/ Diseases	husbandry advisories
Khasi Mandarin and acid lime	Transplanting stage	 <ul style="list-style-type: none"> ■ 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 $\frac{1}{2}$ 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 LUNGLEI	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /1 at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.



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Oil palm	Vegetative stage		<ul style="list-style-type: none">⊕ Cleaning near base of the plant and cut unwanted branches.⊕ Application of split dose of fertilizer 600: 200:100 (g/pt).⊕ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.⊕ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Flowering stage		<ul style="list-style-type: none">⊕ 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		<ul style="list-style-type: none">⊕ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /1 at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
	Banana panama wilt		<ul style="list-style-type: none">⊕ 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		<ul style="list-style-type: none">⊕ 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.



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			<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Passion Fruit	Vegetative stage		<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pineapple	Flowering stage		<ul style="list-style-type: none">■ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.■ The flowering emergence will come out after 55-60 days after chemical spraying.■ Apply split doses of fertilizer @ 60: 50:60 g per plant.■ Remove all unwanted leaves, branches and weed near to the plant.
Pineapple	Harvest stage		<ul style="list-style-type: none">■ 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).
Colocasia	Vegetative		<ul style="list-style-type: none">■ Remove unwanted plant near base of the plant and cut dead branches.



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	stage		
		KOLASIB	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceo us crop	Harvesting stage	AIZAWL	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
Okra	Vegetative to flowering stage	LUNGLEI	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Cowpea	Fruit initiation to harvest	LAWNGTLAI SAIHA	<ul style="list-style-type: none">■ 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



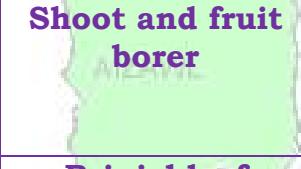
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			and increasing the yield. <ul style="list-style-type: none">■ Harvest all mature fruit.
Brinjal	Fruit initiation to harvest		<ul style="list-style-type: none">■ Remove unwanted plant near base of the plant and cut dead branches.■ Pre emergence application 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		<ul style="list-style-type: none">■ 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		<ul style="list-style-type: none">■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.
Kharif Rice	Transplanting stage	 SERCHHIP	<ul style="list-style-type: none">■ Select disease free seedling with 3-5 leaf stage.■ Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution.■ Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops.■ Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Pre kharif Rice	Maximum tillering stage	 LAWNGTLAI	<ul style="list-style-type: none">■ Remove unwanted plant by hand weeding.■ Apply split dose of fertilizer.■ Proper drainage is required to avoid water logging
	 Rice yellow stem borer		<ul style="list-style-type: none">■ 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.
Maize	Tassling and		<ul style="list-style-type: none">■ Remove unwanted plant near base of



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	silking stage		<p>the plant and cut dead branches.</p> <ul style="list-style-type: none"> ✚ Earthing up of soil along with fertilizer mixture. ✚ Apply split dose of fertilizer.
		Maize cob borer KOLASIB	<ul style="list-style-type: none"> ✚ 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		<ul style="list-style-type: none"> ✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. ✚ Earthing up of soil along with fertilizer mixture.
		Turmeric shoot borer SERCHHIP	<ul style="list-style-type: none"> ✚ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif pulses (Green gram, Black gram and Rajma)	Flower initiation stage		<ul style="list-style-type: none"> ✚ Remove unwanted plant from the base of the plant. ✚ Earthing up near base of the plant. ✚ Remove all infected plant and burn it.
		Aphid and bug LUNGLEI	<ul style="list-style-type: none"> ✚ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol style="list-style-type: none"> 1. Culling of positive pigs or piglets.
	Adult stage	Swine fever. LAWNGTLAI	<ol style="list-style-type: none"> 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)	<ul style="list-style-type: none"> • FMD vaccine at 16 week and repeat every 6 month.



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	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none">• Black Quarter Vaccine (BQV).❖ Primary vaccination 6 month or above❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	<ul style="list-style-type: none">• F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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