



# 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:** 14 – 18 September, 2016

**Bulletin No:** - 636/2016/ Bulletin/Mizo

**Date of issue:** 13<sup>th</sup> September, 2016

Parameters	14.09.2016	15.09.2016	16.09.2016	17.09.2016	18.09.2016
Rainfall (mm)	5	4	8	7	6
Max Temp (°C)	30	32	32	32	33
Min Temp (°C)	23	24	24	24	24
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	99	100	98	99
Min RH (%)	79	67	78	88	64
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	S-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)

<b>Ni thum kalta sik leh sa dinhmun tlangpui</b>  <b>Maximum Tem. (°C): 26-28°C</b> <b>Minimum Tem. (°C): 21-23°C</b> <b>Maximum RH (%): 94-99%</b> <b>Minimum RH (%): 79-91%</b> <b>Wind Direction: southwesterly</b> <b>Cloud cover: Mainly cloudy</b> <b>Wind speed: 3 km/hr</b>  <b>Rainfall: 98.6 mm</b>	<b>14<sup>th</sup> September- 18<sup>th</sup> September, 2016</b> <b>chhunga sik leh sa dinhmun tur tlangpui</b>  Ni 5 lo awm turah hian ruahui tam vak lo a tlak beisei a ni. Khua a lum lai berin 30-33°C a ni ang a. A vawh lai berin 23-24°C ni tura beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 64-88% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin thlang lam leh chhak lam hawi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.  <b>Weekly cumulative rainfall: 30.0mm</b>
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<b>NDVI for Mizoram</b>	 Agriculture vigour is good & very good over north-east states of country.	Moderately wet mildly dry/mildly wet conditions
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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Phun sawn (transplant) hun		<ul style="list-style-type: none"> <li>⊕ Heng ser tiak te hi Ni zung hmuh thatna, thili laka him hmunah phun tur a ni.</li> <li>⊕ Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni.</li> <li>⊕ 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.</li> <li>⊕ 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.</li> <li>⊕ 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.</li> </ul>
		Citrus Cancar	<ul style="list-style-type: none"> <li>⊕ 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.</li> <li>⊕ Kung tlemte chauhin he natna an</li> </ul>



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			vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.
<b>Oil Palm</b>	<b>A tet lai</b>	<p><b>Citrus leafminor and butterfly</b></p> <p>KOLASIB</p> <p>MAMIT</p> <p>AIZAWL</p> <p>CHAMPAI</p> <p>SERCHHIP</p> <p>LUNGEI</p> <p>LAWNGTLAI</p> <p>SAIHA</p>	<ul style="list-style-type: none"> <li>⊕ 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).</li> <li>⊕ Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni.</li> <li>⊕ Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni.</li> <li>⊕ Oil palm tiak chu 2.5cm vela thuk in phum tur.</li> <li>⊕ Nitin tui pek tur.</li> <li>⊕ A tiak pakhat tan leitha SSP, MOP leh Mg<sub>2</sub>SO<sub>4</sub> cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni.</li> <li>⊕ A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni.</li> <li>⊕ Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.</li> </ul>
	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>⊕ A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni.</li> <li>⊕ Kung khatah 600:200:100 (NPK) hi hmun hniyah thena apply tur a ni.</li> <li>⊕ 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.</li> </ul>



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Balhla	A par lai	KOLASIB	<ul style="list-style-type: none"> <li>Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.</li> </ul>
		MAMIT	<ul style="list-style-type: none"> <li>Balhla kung bul vel</li> <li>tihfai a a hnah ro te thlak bawk tur.</li> <li>Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni.</li> <li>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.</li> </ul>
		BANNAH CHAMPAI	<ul style="list-style-type: none"> <li>Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 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).</li> </ul>
		Banana panama wilt	<ul style="list-style-type: none"> <li>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.</li> </ul>
	A hmin hun	LUNGLEI	<ul style="list-style-type: none"> <li>Balhla hi a par atanga ni 120-140 inkarah a hmin tlangpui.</li> <li>A raha kil a reh hmu, a mam pal hunah seng chauh tur a ni.</li> <li>Balhla bu a puitlin tawh chuan a hnah chung ber a ro tan thin.</li> </ul>
		Banana fruit caterpillar	<ul style="list-style-type: none"> <li>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.</li> </ul>
		Banana thrips	<ul style="list-style-type: none"> <li>A rah hunlaia polythene bag-a a kung tuam hian rannung thenkhak lakah a veng ve a ni.</li> </ul>
Sapthei	Phunsawn hunlai	SAIHA	<ul style="list-style-type: none"> <li>Rah chhuah tha, virus kai lo thlan tur a ni.</li> <li>Phunsawn atana kan lak hian a</li> </ul>



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			<p>kunga chawrno (bud) 3 tal a keng tel tur a ni.</p> <ul style="list-style-type: none"> <li>■ Phun sawn veleh hian maul eh polythene a siam hmun uap tak tak (chamber\0 ah dah tur a ni).</li> <li>■ <b>Grafting (a kung zawm):</b></li> <li>■ Sapthei chhung eng (yellow) hi polythene bag ah an phun a, Rahangala hybrid kung tantawi nen an zawm thin.</li> </ul>
	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>■ A bulhnai vel tihfai that tur.</li> <li>■ Khaw ro lai chuan a zung bulah lei rihvur a, hnimhnah dah bawk tur a ni.</li> <li>■ Zingkar leh tlai lama Ni a hmuh that theihnan Hmarthlang lam hawitir tur a ni.</li> <li>■ A zar no ho a zamna tur siam mumal tur.</li> </ul>
			<ul style="list-style-type: none"> <li>■ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw, acephate 1.0g emaw dimethoate 2ml emaw, tui litre khatah pawlh a, kah tur.</li> </ul>
Lakhuihthei	<b>A seng hunlai</b>		<ul style="list-style-type: none"> <li>■ A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni.</li> <li>■ Local market (khawchhunga hrall nghal tur) atan chuan a hmin tan lek lek ah seng tur.</li> <li>■ Thawnchhuah tur atan erawh chuan a rawng a eng (yellow) hma hretah seng tur a ni.</li> </ul>
			<ul style="list-style-type: none"> <li>■ Sazu bu leh kua vel tihchhiat a, a hmun vel fai taka enkawl tur.</li> <li>■ Sazu chaw vel a awm loh nan hnim vel tihfai that tur.</li> <li>■ Sazu an tam viau chuan sazu tur 2% Zinc phosphide (96% buh nawi, 2% edible oil leh 2%ZnP) hman tur a ni.</li> </ul>
Colocasia	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar tangkai lo ho pahi tur.</li> </ul>



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		<b>Corm borer</b>	<ul style="list-style-type: none"> <li>■ A zung bul rih vur a leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> </ul>
<b>Cucurbitaceous crops</b>	<b>A seng hun</b>	<b>AIZAWL</b>	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni.</li> <li>■ Tuthlawh hmangin hnime thlawn mai tur a ni.</li> <li>■ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni.</li> <li>■ A rah puitling ho chu seng nghal zel tur a ni.</li> </ul>
		<b>Fruit fly</b>	<ul style="list-style-type: none"> <li>■ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.</li> </ul>
<b>Bawrhsaibe</b>	<b>A par hma deuh atang a par thleng</b>	<b>LUNGLEI</b>	<ul style="list-style-type: none"> <li>■ A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni.</li> <li>■ A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni.</li> <li>■ Ruah tui tling a awm loh nan tui luankawr mumal siam tur a ni.</li> <li>■ A rah puitling apiang seng zel tur a ni.</li> </ul>
		<b>Okra leafroller</b>	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
<b>Behlawi</b>	<b>Rah a chhuah tan</b>		<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar</li> </ul>



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	<b>atanga seng hun thleng</b>		<p>tangkai lo ho pah tur.</p> <ul style="list-style-type: none"> <li>■ A zung bul rih vur a leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> <li>■ A rah puitling apiang seng zel tur.</li> </ul>
Bawkbawn	<b>Rah a chhuah tan atanga seng hun thleng</b>		<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar tangkai lo ho pah tur.</li> <li>■ Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnime to tam tur a veng.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, thlai thang a tichak bawk.</li> <li>■ Ram Hactare khata zauah leitha Urea 50kg hi hmum hniah thenin vawihnih phul tur a ni.</li> <li>■ A rah puitling apiang seng zel tur.</li> </ul>
	<b>Shoot and fruit borer (thlai kung leh a rah bawm chi rannung)</b>		<ul style="list-style-type: none"> <li>■ Natna in a tihchhiat tawh thlai peng lakthlak a pah tur.</li> <li>■ 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.</li> </ul>
	<b>Brinjal leaf beetle</b>		<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Kharif rice (Buh fur laia chin chi)	<b>Phun sawn hunlai</b>		<ul style="list-style-type: none"> <li>■ Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur.</li> <li>■ Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur.</li> </ul>



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Kharif rice	<b>A peng insiamtur zawng zawng insiam zawk hnu lawnk</b>	KOLASIB	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Pre Kharif Rice	<b>A vui inseam tan lai</b>	MAMIT	<ul style="list-style-type: none"> <li>■ A bul vela hnime leh thlaidang lo to ve palh te pawh thlawn tur.</li> <li>■ Leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luanna mumal tak siam tur.</li> </ul>
		RICE FIELD CHAMPAI	<b>Rice yellow stem borer</b>
Vaimim fur hma a seng chi	<b>A seng hun</b>	SERCHHIP	<ul style="list-style-type: none"> <li>■ A hnah hmawr tan tur.</li> <li>■ A kung hrisel lo lai pah tur</li> <li>■ Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.</li> </ul>
Vaimim fur hma hreta seng chi	<b>A kung puitlin hun</b>	LUNGLEI	<ul style="list-style-type: none"> <li>■ A kung bul vela hnime vel tihfai that tur.</li> <li>■ Leitha nena rihvur tur.</li> <li>■ Leitha vawi hnih pek tur.</li> </ul>
			<b>Maize cob borer (vaimim kawm bawmtu rannung)</b>
Sawhthing leh Aieng	<b>Par a chhuah hma</b>	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> <li>■ Thlai hnah, a tang ro leh hnime te chu pahfai vek tur.</li> <li>■ Lin tirk (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kg a.i ha<sup>-1</sup> Metolachlor (Dual) @1.5-2.0 kg a.i ha<sup>-1</sup>, Pendimethalin (Stomp)</li> </ul>



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			<p>@ 1-1.5kg a.i ha<sup>-1</sup> te hian hnimhnah lian lampang chi a veng a ni.</p> <ul style="list-style-type: none"> <li>■ 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.</li> <li>■ A bul vela hnim leh thlaidang lo to ve te that a pail tur.</li> <li>■ A kung bulah rih vur tur.</li> <li>■ Natna kai tawh thlai te lakhawm a halral tur.</li> </ul>
Kharif pulses (Green gram, Black gram and Rajma)	<b>Par a chhuah atanga rah a chhuah thleng</b>	<b>Turmeric shoot borer (Aieng kung ei chhetu rannung) KOLASIB</b>	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ A bul vela hnim leh thlaidang lo to ve te that a pail tur.</li> <li>■ A kung bulah rih vur tur.</li> <li>■ Natna kai tawh thlai te lakhawm a halral tur.</li> </ul>
	MAMIT	APHID AND BUG AIZAWL CHAMPAI	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Vawk	<b>Kumtluanin</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	<p>1. A natna vei vawk te chu thah a phum tur a ni.</p>
	<b>A puitling hun</b>	<b>Swine fever.</b>	<p>2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur</p>
Bawng	<b>Kumtluanin</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"> <li>• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.</li> </ul>
	<b>A naupan lai</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> <li>■ Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>■ Kumkhat hnu ah vaccine pek leh tur.</li> </ul> </li> </ul>
Ar	<b>Kumtluanin</b>	<b>Ranikhet Disease.</b>	<p>1. Ar note an pian hlimin F1 vaccine pek tur a nia an puitlin hunah R<sub>2</sub>B pek leh tur a ni.</p>
		<b>Coccidiosis</b>	<p>2. Amprolium emaw coccidiostat pek tur.</p>



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### Expert committee members:

<b>Dr. S.B. Singh</b>	:	Joint Director	<a href="mailto:basantasinghsoibam@rediffmail.com">basantasinghsoibam@rediffmail.com</a>
<b>Dr. Saurav Saha</b>	:	Scientist (Agril. Physics)	<a href="mailto:sauravs.saha@gmail.com">sauravs.saha@gmail.com</a>
<b>Dr. T. Boopathi</b>	:	Scientist (Agril Entomology)	<a href="mailto:boopathiars@gmail.com">boopathiars@gmail.com</a>
<b>Dr. Sudip Kumar Dutta</b>	:	Scientist (Hort.)	<a href="mailto:sudipiari@rediffmail.com">sudipiari@rediffmail.com</a>
<b>Dr. A. Ratankumar Singh</b>	:	Scientist (Plant Pathology)	<a href="mailto:ratanplantpatho@gmail.com">ratanplantpatho@gmail.com</a>
<b>Dr. L. H. Puii</b>	:	Scientist (Vet. Microbiology)	<a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>
<b>Dr. Lungmuana</b>	:	Scientist (Soil Fertility)	<a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>
<b>Dr Y. Ramakrishna</b>	:	Farm manager (T-6)	<a href="mailto:ramakrishnaiari@rediffmail.com">ramakrishnaiari@rediffmail.com</a>
<b>Mr. Samik Chowdhury</b>	:	Technical Officer	<a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>
<b>Mr. Evans Syiem</b>	:	Meteorological Observer	<a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>
<b>Mr. Vanthawmliana</b>	:	Senior Research Fellow (Mizo language Translator)	<a href="mailto:Tom_tom79@yahoo.in">Tom_tom79@yahoo.in</a>
<b>Mrs. Monika Bora</b>	:	Meteorological Observer	<a href="mailto:boramonika@rediffmail.com">boramonika@rediffmail.com</a>

### Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	<a href="mailto:kvklunglei@gmail.com">kvklunglei@gmail.com</a> <a href="mailto:kvknahthial@gmail.com">kvknahthial@gmail.com</a>
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	<a href="mailto:kvkkolasib@gmail.com">kvkkolasib@gmail.com</a>
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	<a href="mailto:Mmami997@yahoo.com">Mmami997@yahoo.com</a> <a href="mailto:kvksurchhip@gmail.com">kvksurchhip@gmail.com</a>
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	<a href="mailto:pckvkhawzawl@rediffmail.com">pckvkhawzawl@rediffmail.com</a>
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	<a href="mailto:vvl9@rediffmail.com">vvl9@rediffmail.com</a> <a href="mailto:kvklawngtalai@rediffmail.com">kvklawngtalai@rediffmail.com</a>
Ms. C. Racheal	:	PC KVK, Saiha	<a href="mailto:kvksaiha@gmail.com">kvksaiha@gmail.com</a> <a href="mailto:rachoza@gmail.com">rachoza@gmail.com</a>
Mr. Vanlalhrauaia Hnamte	:	PC KVK, Mamit	<a href="mailto:kvkmamit@yahoo.in">kvkmamit@yahoo.in</a>
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	<a href="mailto:Kpchy@rediffmail.com">Kpchy@rediffmail.com</a> <a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>



# 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:** 14 – 18 September, 2016

**Bulletin No:** - 636/2016/ Bulletin/English

**Date of issue:** 13<sup>th</sup> September, 2016

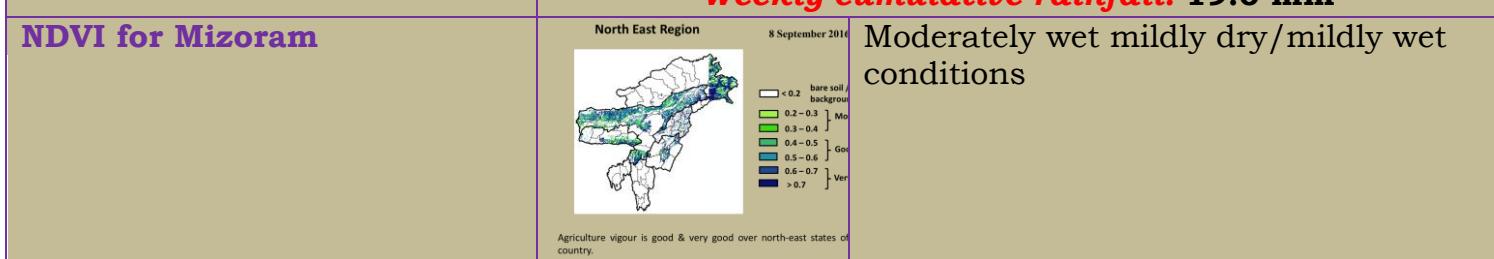
Parameters	14.09.2016	15.09.2016	16.09.2016	17.09.2016	18.09.2016
<b>Rainfall (mm)</b>	8	3	3	0	5
<b>Max Temp (°C)</b>	32	32	33	33	33
<b>Min Temp (°C)</b>	23	23	23	24	24
<b>Cloud Coverage</b>	Partially clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
<b>Max RH (%)</b>	97	97	98	97	97
<b>Min RH (%)</b>	69	68	76	77	75
<b>Wind Speed (KmPH)</b>	3	2	2	3	3
<b>*Wind Direction</b>	S-E	E	S-E	S-E	S-E

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

**STATUS OF MONSOON- 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 14 <sup>th</sup> September, 2016 To 18 <sup>th</sup> September, 2016.
<b>Maximum Tem. (°C):</b> 24-26°C <b>Minimum Tem. (°C):</b> 19-22°C <b>Maximum RH (%):</b> 97-100% <b>Minimum RH (%):</b> 76-94% <b>Wind Direction:</b> southeasterly <b>Cloud cover:</b> Mainly cloudy <b>Wind speed:</b> 3 km/hr  <b>Rainfall:</b> 69.2 mm	<p>There are chances of light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 32-33°C and 23-24°C. Maximum relative humidity is expected in the range of 97-98% and minimum may from 68-77%. 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.</p> <p style="text-align: center;"><b>Weekly cumulative rainfall: 19.0 mm</b></p>





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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
<b>Khasi Mandarin and acid lime</b>	<b>Flowering to fruit formation stage</b>	<p style="text-align: center;">KOLASIB MAMIT AIZAWL SERCHHIP</p> <p><b>Fruit fly</b></p>	<ul style="list-style-type: none"> <li>➡ In north-eastern parts of India, Khasi mandarins are very closely spaced (6 m. X 6 m.), accommodating more than 120 plants/ha.</li> <li>➡ Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water for one hectare area).</li> <li>➡ Make a circle near to the plant and apply 25 kg FYM along with 20 g urea and 125 g SSP.</li> <li>➡ Remove all unwanted plants from near the base of the plant.</li> <li>➡ Care should be taken to avoid water stagnation in the bags.</li> </ul>
		<p style="text-align: center;">LUNGLEI LAWNGTLAI SAIHA</p> <p><b>Dia back disease</b></p>	<ul style="list-style-type: none"> <li>➡ 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.</li> </ul>
<b>Passion Fruit</b>	<b>Flowering to Fruit formation stage</b>	<p style="text-align: center;">LUNGLEI LAWNGTLAI SAIHA</p>	<ul style="list-style-type: none"> <li>➡ Remove all infected plant and burn it.</li> <li>➡ Pruning of effected part spraying with carbendazim/Bordeaux mixture 1.0%</li> <li>➡ Clean near the base of the plant.</li> <li>➡ In dry spell apply mulch with grass.</li> <li>➡ Trellises are in the north-south direction to minimize the shades during early morning and late evening.</li> <li>➡ Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water for one hectare area).</li> <li>➡ Apply 100: 50:100g as NPK per plant.</li> </ul>
		<p style="text-align: center;">LUNGLEI LAWNGTLAI SAIHA</p>	<ul style="list-style-type: none"> <li>➡ Collect and burn all infected plant.</li> <li>➡ 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.</li> </ul>



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<b>Banana</b>	<b>Harvesting stage</b>		<ul style="list-style-type: none"> <li>✚ Change of colour from green to yellowish.</li> <li>✚ Fingers are about three quarters full i.e. 3/4 of fruit is rounded</li> <li>✚ Ridges should still be prominent on the remaining quarter of the finger.</li> <li>✚ Harvest bananas when they are swollen and green but before they become ripe (plump and yellow).</li> <li>✚ Too early (when the bananas are thin and dark green).</li> <li>✚ Too late (when they are thick and turning yellow).</li> </ul>
	MAMIT	<b>Banana Rhizome weevil</b> AIZAWL	<ul style="list-style-type: none"> <li>✚ 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 1<sup>st</sup> instars predominate which coincides with I Fortnight of July.</li> </ul>
		<b>Banana panama wilt</b>	<ul style="list-style-type: none"> <li>✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.</li> </ul>
		<b>Banana beetle</b>	<ul style="list-style-type: none"> <li>✚ Removal of weeds from basin</li> <li>✚ Removal of unwanted sucker</li> <li>✚ Application of alphamethrin @ 0.01%.</li> </ul>
<b>Pineapple</b>	<b>Harvest stage</b>		<ul style="list-style-type: none"> <li>✚ A basal golden yellow coloration at the base is the sign of a ripe fruit.</li> <li>✚ Fresh fruits destined for the local market are plucked when almost ripe.</li> <li>✚ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).</li> </ul>
		<b>Rat damage</b> LAWNGTLAI SAIHA	<ul style="list-style-type: none"> <li>✚ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.</li> <li>✚ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields.</li> <li>✚ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent</li> </ul>



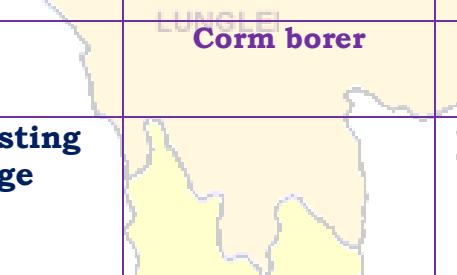
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			infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
<b>Oil plam</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>■ Time from flowering to harvesting of ripe fruit is 5-6 months.</li><li>■ Fruit brunch is tightly wedge in the leaf axil of the plam.</li><li>■ Brunch of a mature plam contains 1,000 to 4,000 fruits, depending on the trees agr and vigor.</li><li>■ Bunch weights at maturity 15-25 kg.</li><li>■ The percentage of fruits per bunch is usually 50-60%.</li><li>■ The egg shaped fruits weight 10-20 g.</li><li>■ The pulp around the nut contains the red palm oil.</li><li>■ The kernel in the nut contains oil very similar to coconut oil, but palm oil and palm kernel oil are chemically different.</li></ul>
<b>Colocasia</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>■ Remove unwanted plant near base of the plant and cut dead branches.</li><li>■ Earthing up soil at base of the plant along with split doses of fertilizer.</li><li>■ Proper drainage is required to avoid water logging.</li><li>■ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.</li></ul>
<b>Cucurbitaceo us crop</b>	<b>Harvesting stage</b>		<ul style="list-style-type: none"><li>■ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.</li><li>■ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application</li><li>■ Weeding can be done by hoeing as and when necessary.</li><li>■ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches.</li><li>■ Harvest all mature fruit.</li></ul>
			<ul style="list-style-type: none"><li>■ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension</li></ul>



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			containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
<b>Okra</b>	<b>Harvesting stage</b>	KOLASIB	<ul style="list-style-type: none"><li>■ Harvest all mature fruit.</li><li>■ Keep over mature fruit for seed production.</li><li>■ Keep dry fruits in sun for drying and store for next year</li></ul>
		Okra leafroller	<ul style="list-style-type: none"><li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
<b>Cowpea</b>	<b>Fruit initiation to harvest</b>	AIZAWL	<ul style="list-style-type: none"><li>■ Remove unwanted plant near base of the plant and cut dead branches.</li><li>■ Earthing up soil at base of the plant along with split doses of fertilizer.</li><li>■ Proper drainage is required to avoid water logging.</li><li>■ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.</li><li>■ Harvest all mature fruit.</li></ul>
<b>Brinjal</b>	<b>Harvesting stage</b>	SERCHHIP	<ul style="list-style-type: none"><li>■ Harvest all mature fruit.</li><li>■ Keep over mature fruit for seed production.</li><li>■ Extract seeds from full ripened or over matured fruit.</li><li>■ Keep extracted for sun dry and keep for next year.</li></ul>
		HUINGLI	<ul style="list-style-type: none"><li>■ Collect and destroy infected parts of the plant.</li><li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
		SAIHA	<ul style="list-style-type: none"><li>■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.</li></ul>
<b>Tomato</b>	<b>Nursery stage</b>	Land preparation	<ul style="list-style-type: none"><li>■ Nursery preparation for tomato.</li><li>■ Raised bed, nursery bed solarisation.</li><li>■ Bed should be 1m width and conventional length.</li><li>■ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li><li>■ Line sowing of seeds (7-10cm)</li></ul>



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		Damping off	<ul style="list-style-type: none"><li>■ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li><li>■ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li></ul>
Ginger and turmeric	Vegetative stage	KOLASIB MAMIT AIZAWL	<ul style="list-style-type: none"><li>■ Remove unwanted plant near base of the plant and cut dead branches.</li><li>■ 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.</li><li>■ Earthing up of soil along with fertilizer mixture.</li></ul>
		Turmeric shoot borer	<ul style="list-style-type: none"><li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
Pre kharif Rice	Panicle Emergence stage	SERCHHIP LUNGLOI	<ul style="list-style-type: none"><li>■ Remove unwanted plant by hand weeding.</li><li>■ Apply split dose of fertilizer.</li><li>■ Proper drainage is required to avoid water logging</li></ul>
		Rice yellow stem borer LUNGLOI	<ul style="list-style-type: none"><li>■ Cut leaf tip from the seedling.</li><li>■ Collect and destroy infected parts of the plant.</li><li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
		Rice leafroller LAWNGTIA SAIHA	<ul style="list-style-type: none"><li>■ Stop indiscriminate use of fertilizer.</li><li>■ Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage and 2 ml/lt of water for heavy damage.</li></ul>
Kharif Maize	Harvesting stage	LAWNGTIA SAIHA	<ul style="list-style-type: none"><li>■ Harvest all mature cobs.</li><li>■ Keep all mature cobs for sun dry.</li><li>■ After sundry hang all cobs in smoke for reduce maize weevil attack.</li></ul>
Kharif pulses (Green gram,	Harvesting		<ul style="list-style-type: none"><li>■ Harvest all mature pods.</li><li>■ Keep all mature pods for sun dry.</li></ul>



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<b>Black gram and Rajma)</b>	<b>stage</b>		
<b>Soybean</b>	<b>Sowing</b>	<b>Zero tillage</b>  KOLASIB	<ul style="list-style-type: none"> <li>⊕ Clean all debris from the <i>jhum</i> field.</li> <li>⊕ Open the furrow with of dao or dibbler or khurpee.</li> <li>⊕ Put recommended fertilizer dose and mix with soil.</li> <li>⊕ Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.</li> </ul>
		<b>Aphid and bug</b>  MAMIT	<ul style="list-style-type: none"> <li>⊕ Manually collect and destroy the insect.</li> <li>⊕ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Pig disease</b>  CHAIL	<ul style="list-style-type: none"> <li>⊕ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea.once the symptom are noticed, call veterinarian doctor.</li> </ul>
		<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>  LUNGLEI	<ol style="list-style-type: none"> <li>1. Culling of positive pigs or piglets.</li> </ol>
	<b>Adult stage</b>	<b>Swine fever.</b>  LUNGLEI	<ol style="list-style-type: none"> <li>2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval</li> </ol>
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>  SAIHA	<ul style="list-style-type: none"> <li>• FMD vaccine at 16 week and repeat every 6 month.</li> </ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>  LAWNGTIA SAIHA	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQV).</li> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul>
<b>Poultry</b>	<b>Litter management</b>		<ul style="list-style-type: none"> <li>⊕ Maintain light 12-14 hrs in brooder house.</li> <li>⊕ The litter should be 7.5- 10 cm deep.</li> <li>⊕ Saw dust, paddy husk or ground nut hulls can be used as litter.</li> <li>⊕ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.</li> </ul>



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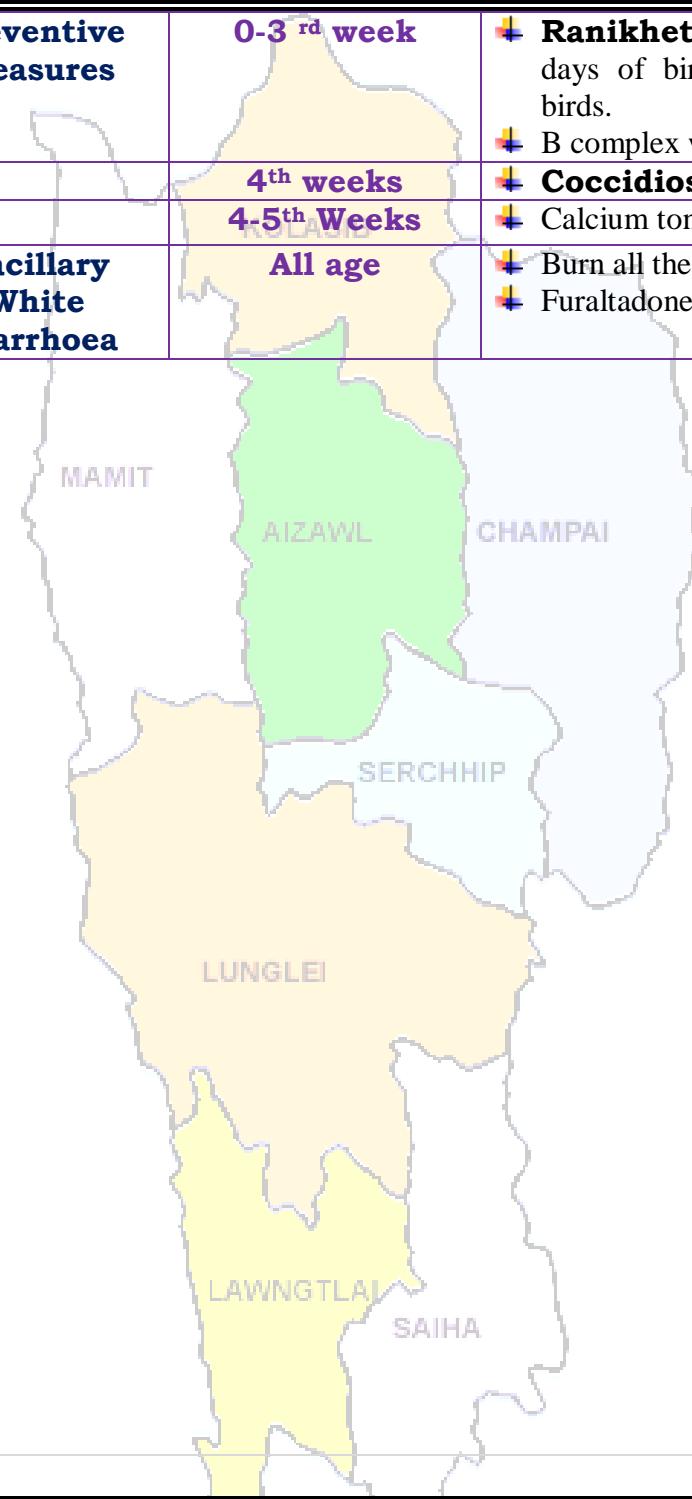
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	<b>Preventive measures</b>	<b>0-3<sup>rd</sup> week</b>	<ul style="list-style-type: none"><li>+ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li><li>+ B complex with antibodies</li></ul>
		<b>4<sup>th</sup> weeks</b>	<ul style="list-style-type: none"><li>+ Coccidiosis- Amprolium or coccidiostat</li><li>+ Calcium tonic fortified with B<sub>12</sub></li></ul>
		<b>4-5<sup>th</sup> Weeks</b>	<ul style="list-style-type: none"><li>+ Burn all the dead birds.</li><li>+ Furaltadone@ 0.5 g/litre of water for 7 days.</li></ul>
	<b>Bacillary White Diarrhoea</b>	<b>All age</b>	





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### Expert committee members:

<b>Dr. S.B. Singh</b>	:	Joint Director	<a href="mailto:basantasinghsoibam@rediffmail.com">basantasinghsoibam@rediffmail.com</a>
<b>Dr. Saurav Saha</b>	:	Scientist (Agril. Physics)	<a href="mailto:sauravs.saha@gmail.com">sauravs.saha@gmail.com</a>
<b>Dr. T. Boopathi</b>	:	Scientist (Agril Entomology)	<a href="mailto:boopathiars@gmail.com">boopathiars@gmail.com</a>
<b>Dr. Sudip Kumar Dutta</b>	:	Scientist (Hort.)	<a href="mailto:sudipiari@rediffmail.com">sudipiari@rediffmail.com</a>
<b>Dr. A. Ratankumar Singh</b>	:	Scientist (Plant Pathology)	<a href="mailto:ratanplantpatho@gmail.com">ratanplantpatho@gmail.com</a>
<b>Dr. L. H. Puii</b>	:	Scientist (Vet. Microbiology)	<a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>
<b>Dr. Lungmuana</b>	:	Scientist (Soil Fertility)	<a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>
<b>Dr. M. Thoithoi Devi</b>	:	Scientist (Agronomy)	<a href="mailto:thoigri@gmail.com">thoigri@gmail.com</a>
<b>Mr. Samik Chowdhury</b>	:	Technical Officer	<a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>
<b>Mr. Evans Syiem</b>	:	Meteorological Observer	<a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>
<b>Mr. Vanthawmliana</b>	:	Senior Research Fellow (Mizo language Translator)	<a href="mailto:Tom_tom79@yahoo.in">Tom_tom79@yahoo.in</a>
<b>Mrs. Monika Bora</b>	:	Meteorological Observer (IMD)	<a href="mailto:boramonika@rediffmail.com">boramonika@rediffmail.com</a>

### Collaborating Department:

Name of the KVK	Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
<b>KVK Lunglei</b>	: <b>Dr. Lalmuanzovi</b> Head & Sr. Scientist	<a href="mailto:kvhnahthial@gmail.com">kvhnahthial@gmail.com</a>	9862803750 9436154614
<b>KVK, Kolasib</b>	: <b>Mr. Lalrosamga Khiangte</b> Head & Sr. Scientist	<a href="mailto:kvkkolasib@gmail.com">kvkkolasib@gmail.com</a>	9436152440
<b>KVK, Serchhip</b>	: <b>Mr. K. Laltlanmawia</b> Head & Sr. Scientist	<a href="mailto:kvkserchhip@gmail.com">kvkserchhip@gmail.com</a>	9436146115 9615389293
<b>KVK, Champhai</b>	: <b>Mrs. Lalrinawmi Renthlei</b> Head & Sr. Scientist	<a href="mailto:kvkkhawzawl@gmail.com">kvkkhawzawl@gmail.com</a>	9436159788
<b>KVK, Lawngtlai</b>	: <b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	<a href="mailto:kvklawntlai@gmail.com">kvklawntlai@gmail.com</a>	9436155858
<b>KVK, Saiha</b>	: <b>Dr. Vanlahruaia Hnampe</b> Head & Sr. Scientist	<a href="mailto:kvksaiha@gmail.com">kvksaiha@gmail.com</a>	8974656509
<b>KVK, Mamit</b>	: <b>Dr. Samuel Lalliansanga</b> Head & Sr. Scientist	<a href="mailto:kvkmamit@gmail.com">kvkmamit@gmail.com</a>	9436147625
<b>KVK, Aizawl</b>	: <b>Dr. K. P. Chaudhary</b> Head & Sr. Scientist	<a href="mailto:Kpchy@rediffmail.com">Kpchy@rediffmail.com</a> <a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>	9436351669



**GRAMIN KRISHI MAUSAM SEWA**  
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**District:** Lawngtlai

**Period:** 14 – 18 September, 2016

**Bulletin No:** - 636/2016/ Bulletin/Mizo

**Date of issue:** 13<sup>th</sup> September, 2016

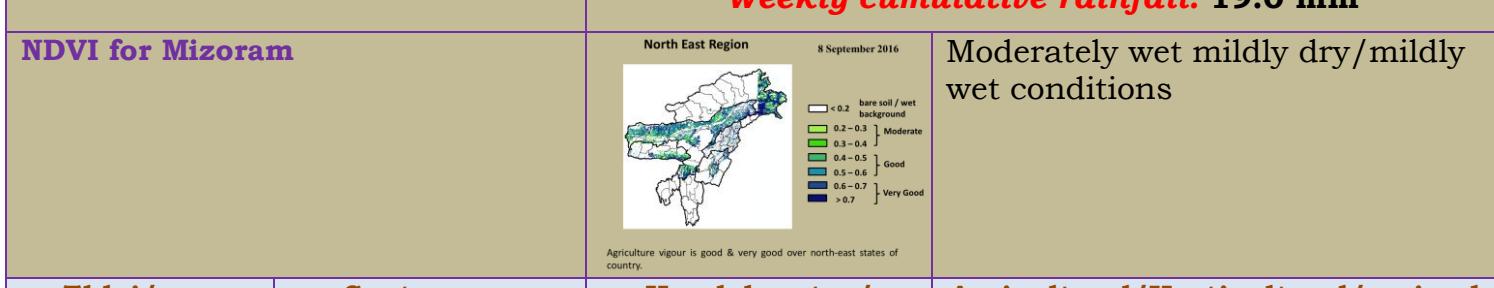
Parameters	14.09.2016	15.09.2016	16.09.2016	17.09.2016	18.09.2016
Rainfall (mm)	8	3	3	0	5
Max Temp (°C)	32	32	33	33	33
Min Temp (°C)	23	23	23	24	24
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	97	97	98	97	97
Min RH (%)	69	68	76	77	75
Wind Speed (KmPH)	3	2	2	3	3
*Wind Direction	S-E	E	S-E	S-E	S-E

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

**STATUS OF MONSOON- 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)

<b>Ni thum kalta sik leh sa dinhmun tlangpui</b>	<b>14<sup>th</sup> September– 18<sup>th</sup> September, 2016</b> <b>chhunga sik leh sa dinhmun tur tlangpui</b>
<b>Maximum Tem.</b> (°C): <b>24-26°C</b> <b>Minimum Tem.</b> (°C): <b>19-22°C</b> <b>Maximum RH (%)</b> : <b>97-100%</b> <b>Minimum RH (%)</b> : <b>76-94%</b> <b>Wind Direction</b> : <b>southeasterly</b> <b>Cloud cover</b> : <b>Mainly cloudy</b> <b>Wind speed</b> : <b>3 km/hr</b>  <b>Rainfall:</b> <b>69.2 mm</b>	Ni 4 lo awm turah hian ruahui tam vak lo a tlak beisei a ni. Khua a lum lai berin 32-33°C a ni ang a. A vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai berin 97-98% leh a hniam lai berin 68-77% 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.  <b>Weekly cumulative rainfall:</b> <b>19.0 mm</b>



<b>Thlai/ ran</b>	<b>Spat zawng</b>	<b>Hmalakna tur/</b>	<b>Agricultural/Horticultural/ animal</b>
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/sangha	rannung leh natna hrik awm thei te	husbandry atana thurawn
<b>Khasi Mandarin and acid lime</b>	<b>Phun sawn (transplant) hun</b>	<b>husbandry atana thurawn</b> <ul style="list-style-type: none"> <li>⊕ Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmunah phun tur a ni.</li> <li>⊕ Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni.</li> <li>⊕ 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.</li> <li>⊕ 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.</li> <li>⊕ 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 tuiyah 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.</li> </ul>
	<b>Citrus Cancar</b>	<ul style="list-style-type: none"> <li>⊕ 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.</li> <li>⊕ Kung tlemte chauhin he natna an hei chuan a natna kai ho chu kung</li> </ul>



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			hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.
		<b>Citrus leafminor and butterfly</b>  KOLASIB	<ul style="list-style-type: none"> <li>■ 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).</li> </ul>
<b>Oil Palm</b>	<b>A tet lai</b>  MAMIT	<b>AIZAWL</b>  CHAMPAI  SERCHHIP  LUNGLEI	<ul style="list-style-type: none"> <li>■ Polythene bag (a dum ni thei se 23*13 cm a lian ah khawi tur a ni).</li> <li>■ Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni.</li> <li>■ Oil palm tiak chu 2.5cm vela thuk in phum tur.</li> <li>■ Nitin tui pek tur.</li> <li>■ A tiak pakhat tan leitha SSP, MOP leh <math>Mg_2SO_4</math> cawhpawl 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni.</li> <li>■ A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni.</li> <li>■ Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.</li> </ul>
	<b>Par a chhuah hma</b>	LAWNGTLAI  SAIHA	<ul style="list-style-type: none"> <li>■ A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni.</li> <li>■ Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni.</li> <li>■ 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.</li> <li>■ Oil palm rah te hi a rah a hmin</li> </ul>



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Balhla	<b>A par lai</b> 	KOLASIB	<p>hun, rawng mit la tak a rawn nih hunah seng tur a ni.</p> <ul style="list-style-type: none"> <li>■ Balhla kung bul vel</li> <li>■ tihfai a a hnah ro te thlak bawk tur.</li> <li>■ Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni.</li> <li>■ 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.</li> </ul>
	<b>Banana Rhizome weevil</b> 	HILANG CHAMPAI SERCHHIP	<ul style="list-style-type: none"> <li>■ 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).</li> </ul>
	<b>Banana panama wilt</b> 	SERCHHIP	<ul style="list-style-type: none"> <li>■ Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara pah tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.</li> </ul>
	<b>A hmin hun</b> 	LUNGLEI	<ul style="list-style-type: none"> <li>■ Balhla hi a par atanga ni 120-140 inkarah a hmin tlangpui.</li> <li>■ A raha kil a reh hnu, a mam pal hunah seng chauh tur a ni.</li> <li>■ Balhla bu a puitlin tawh chuan a hnah chung ber a ro tan thin.</li> </ul>
	<b>Banana fruit caterpillar</b> 	LAWNGTLAI	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
	<b>Banana thrips</b> 	LAWNGTLAI	<ul style="list-style-type: none"> <li>■ A rah hunlaia polythene bag-a a kung tuam hian rannung thenkhat lakah a veng ve a ni.</li> </ul>
Sapthei	<b>Phunsawn hunlai</b> 	SAIHA	<ul style="list-style-type: none"> <li>■ Rah chhuah tha, virus kai lo thlan tur a ni.</li> <li>■ Phunsawn atana kan lak hian a kunga chawro (bud) 3 tal a keng</li> </ul>



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			<p>tel tur a ni.</p> <ul style="list-style-type: none"> <li>■ Phun sawn veleh hian maul eh polythene a siam hmun uap tak tak (chamber\0 ah dah tur a ni).</li> <li>■ <b>Grafting (a kung zawm):</b></li> <li>■ Sapthei chhung eng (yellow) hi polythene bag ah an phun a, Rahangala hybrid kung tantawi nen an zawm thin.</li> </ul>
	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>■ A bulhnai vel tihfai that tur.</li> <li>■ Khaw ro lai chuan a zung bulah lei rihvur a, hnimhnah dah bawk tur a ni.</li> <li>■ Zingkar leh tlai lama Ni a hmuh that theihnan Hmarthlang lam hawitir tur a ni.</li> <li>■ A zar no ho a zamna tur siam mumal tur.</li> </ul>
			<ul style="list-style-type: none"> <li>■ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw, acephate 1.0g emaw dimethoate 2ml emaw, tui litre khatah pawlh a, kah tur.</li> </ul>
Lakhuihthei	<b>A sang hunlai</b>		<ul style="list-style-type: none"> <li>■ A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni.</li> <li>■ Local market (khawchhunga hrall nghan tur) atan chuan a hmin tan lek lek ah seng tur.</li> <li>■ Thawnchhuah tur atan erawh chuan a rawng a eng (yellow) hma hretah seng tur a ni.</li> </ul>
			<ul style="list-style-type: none"> <li>■ Sazu bu leh kua vel tihchhiat a, a hmun vel fai taka enkawl tur.</li> <li>■ Sazu chaw vel a awm loh nan hnim vel tihfai that tur.</li> <li>■ Sazu an tam viau chuan sazu tur 2% Zinc phosphide (96% buh nawi, 2% edible oil leh 2%ZnP) hman tur a ni.</li> </ul>
Colocasia	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar tangkai lo ho pahi tur.</li> <li>■ A zung bul rih vur a leitha</li> </ul>



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			<p>vawihnih pek tur.</p> <ul style="list-style-type: none"> <li>+ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.</li> <li>+ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> </ul>
		<b>Corm borer</b>	<ul style="list-style-type: none"> <li>+ 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.</li> </ul>
<b>Cucurbitaceous crops</b>	<b>A seng hun</b>		<ul style="list-style-type: none"> <li>+ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni.</li> <li>+ Tuthlawh hmangin hnime thlawn mai tur a ni.</li> <li>+ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni.</li> <li>+ A rah puitling ho chu seng nghal zel tur a ni.</li> </ul>
	<b>Fruit fly</b>		<ul style="list-style-type: none"> <li>+ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.</li> </ul>
<b>Bawrhsaibe</b>	<b>A par hma deuh atang a par thleng</b>		<ul style="list-style-type: none"> <li>+ A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni.</li> <li>+ A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni.</li> <li>+ Ruahtui tling a awm loh nan tui luankawr mumal siam tur a ni.</li> <li>+ A rah puitling apiang seng zel tur a ni.</li> </ul>
	<b>Okra leafroller</b>		<ul style="list-style-type: none"> <li>+ 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.</li> </ul>
<b>Behlawi</b>	<b>Rah a chhuah tan atanga seng hun</b>		<ul style="list-style-type: none"> <li>+ A bul vel tihfai that a, a zar tangkai lo ho paikh tur.</li> </ul>



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	<b>thleng</b>		<ul style="list-style-type: none"> <li>■ A zung bul rih vur a leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> <li>■ A rah puitling apiang seng zel tur.</li> </ul>
<b>Bawbawn</b>	<b>Rah a chhuah tan atanga seng hun thleng</b> <b>MAMIT</b>		<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar tangkai lo ho pah tur.</li> <li>■ Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnime to tam tur a veng.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, thlai thang a tichak bawk.</li> <li>■ Ram Hactare khata zauah leitha Urea 50kg hi hmun hniah thenin vawihnih phul tur a ni.</li> <li>■ A rah puitling apiang seng zel tur.</li> </ul>
	<b>Shoot and fruit borer (thlai kung leh a rah bawm chi rannung)</b>		<ul style="list-style-type: none"> <li>■ Natna in a tihchhiat tawh thlai peng lakthlak a pah tur.</li> <li>■ 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.</li> </ul>
	<b>Brinjal leaf beetle</b>		<ul style="list-style-type: none"> <li>■ Rannung thahna hlo Acephate (Orthene) emaw carbaryl (Sevin) emaw fipronil (Over N Out) emaw pyrethrins emaw, 1-1.5ml tui litre khatah pawlh a, kah tur.</li> </ul>
<b>Kharif rice (Buh fur laia chin chi)</b>	<b>Phun sawn hunlai</b>		<ul style="list-style-type: none"> <li>■ Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur.</li> <li>■ Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur.</li> <li>■ Buh phunna tlar leh tlar inkar</li> </ul>



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Kharif rice	<b>A peng insiamtur zawng zawng insiam zawh hnu lawk</b>	KOLASIB	20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni. <ul style="list-style-type: none"><li>■ A bul vela hnime leh thlaidang lo to ve palh te pawh thlawn tur.</li><li>■ Leitha vawihnih pek tur.</li><li>■ Tui tling tur vennan tui hawk luanna mumal tak siam tur.</li></ul>
Pre Kharif Rice	<b>A vui inseam tan lai</b>	MAMIT	<ul style="list-style-type: none"><li>■ A bul vela hnime leh thlaidang lo to ve palh te pawh thlawn tur.</li><li>■ Leitha vawihnih pek tur.</li><li>■ Tui tling tur vennan tui hawk luanna mumal tak siam tur.</li></ul>
		Rice yellow stem borer	<ul style="list-style-type: none"><li>■ A hnah hmawr tan tur.</li><li>■ A kung hrisel lo lai paikh tur</li><li>■ Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.</li></ul>
Vaimim fur hma a seng chi	<b>A seng hun</b>	SERCHHIP	<ul style="list-style-type: none"><li>■ Arah zawng seng vek tur.</li><li>■ Keh hun zawng ni saah phoro tur.</li><li>■ Vaimim chi chu rapah rep tur.</li></ul>
Vaimim fur hma hreta seng chi	<b>A kung puitlin hun</b>	LUNGLEI	<ul style="list-style-type: none"><li>■ A kung bul vela hnime vel tihfai that tur.</li><li>■ Leitha nena rihvur tur.</li><li>■ Leitha vawi hniih pek tur.</li></ul>
		Maize cob borer (vaimim kawm bawmtu rannung)	<ul style="list-style-type: none"><li>■ 0.1% endosulfan {2ml (35EC)} hi tui litre khatah pawlh a, ni 30 hnuah vaimim hnahah kah tur.</li></ul>
Sawhthing leh Aieng	<b>Par a chhuah hma</b>	LAWNGTLAI SAIHA	<ul style="list-style-type: none"><li>■ Thlai hnah, a tang ro leh hnime te chu paikhfa vek tur.</li><li>■ Lin tirk (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kg a.i ha<sup>-1</sup> Metolachlor (Dual) @1.5-2.0 kg a.i ha<sup>-1</sup>, Pendimethalin (Stomp) @ 1-1.5kg a.i ha<sup>-1</sup> te hian</li></ul>



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			hnimhnah lian lampang chi a veng a ni.
		<b>Turmeric shoot borer (Aieng kung ei chhetu rannung)</b> <b>KOLASIB</b>	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
<b>Kharif pulses (Green gram, Black gram and Rajma)</b>	<b>Par a chhuah atanga rah a chhuah thleng</b>		<ul style="list-style-type: none"> <li>■ A bul vela hnim leh thlaidang lo to ve te that a paih tur.</li> <li>■ A kung bulah rih vur tur.</li> <li>■ Natna kai tawh thlai te lakhawm a halral tur.</li> </ul>
	<b>MAMIT</b>	<b>Aphid and bug</b> <b>AIZAWL</b>	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
<b>Vawk</b>	<b>Kumtluanin</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	<ol style="list-style-type: none"> <li>1. A natna vei vawk te chu thah a phum tur a ni.</li> </ol>
	<b>A puitling hun</b>	<b>Swine fever.</b> <b>SERCHHIP</b>	<ol style="list-style-type: none"> <li>2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur</li> </ol>
<b>Bawng</b>	<b>Kumtluanin</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"> <li>• Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.</li> <li>• Black Quarter Vaccine (BQ)           <ul style="list-style-type: none"> <li>■ Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>■ Kumkhat hnu ah vaccine pek leh tur.</li> </ul> </li> </ul>
	<b>A naupan lai</b>	<b>Black Quarter (BQ)</b>	<ol style="list-style-type: none"> <li>1. Ar note an pian hlimin F<sub>1</sub> vaccine pek tur a nia an puitlin hunah R<sub>2</sub>B pek leh tur a ni.</li> <li>2. Amprolium emaw coccidiostat pek tur.</li> </ol>
<b>Ar</b>	<b>Kumtluanin</b>	<b>Ranikhet Disease.</b> <b>Coccidiosis</b> <b>SAIHA</b>	



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Guwahati)



### Expert committee members:

<b>Dr. S.B. Singh</b>	:	Joint Director	<a href="mailto:basantasinghsoibam@rediffmail.com">basantasinghsoibam@rediffmail.com</a>
<b>Dr. Saurav Saha</b>	:	Scientist (Agril. Physics)	<a href="mailto:sauravs.saha@gmail.com">sauravs.saha@gmail.com</a>
<b>Dr. T. Boopathi</b>	:	Scientist (Agril Entomology)	<a href="mailto:boopathiars@gmail.com">boopathiars@gmail.com</a>
<b>Dr. Sudip Kumar Dutta</b>	:	Scientist (Hort.)	<a href="mailto:sudipiari@rediffmail.com">sudipiari@rediffmail.com</a>
<b>Dr. A. Ratankumar Singh</b>	:	Scientist (Plant Pathology)	<a href="mailto:ratanplantpatho@gmail.com">ratanplantpatho@gmail.com</a>
<b>Dr. L. H. Puii</b>	:	Scientist (Vet. Microbiology)	<a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>
<b>Dr. Lungmuana</b>	:	Scientist (Soil Fertility)	<a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>
<b>Dr Y. Ramakrishna</b>	:	Farm manager (T-6)	<a href="mailto:ramakrishnaiari@rediffmail.com">ramakrishnaiari@rediffmail.com</a>
<b>Mr. Samik Chowdhury</b>	:	Technical Officer	<a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>
<b>Mr. Evans Syiem</b>	:	Meteorological Observer	<a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>
<b>Mr. Vanthawmliana</b>	:	Senior Research Fellow (Mizo language Translator)	<a href="mailto:Tom_tom79@yahoo.in">Tom_tom79@yahoo.in</a>
<b>Mrs. Monika Bora</b>	:	Meteorological Observer	<a href="mailto:boramonika@rediffmail.com">boramonika@rediffmail.com</a>

### Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	<a href="mailto:kvklunglei@gmail.com">kvklunglei@gmail.com</a> <a href="mailto:kvknahthial@gmail.com">kvknahthial@gmail.com</a>
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	<a href="mailto:kvkkolasib@gmail.com">kvkkolasib@gmail.com</a>
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	<a href="mailto:Mmami997@yahoo.com">Mmami997@yahoo.com</a> <a href="mailto:kvksurchhip@gmail.com">kvksurchhip@gmail.com</a>
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	<a href="mailto:pckvkhawzawl@rediffmail.com">pckvkhawzawl@rediffmail.com</a>
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	<a href="mailto:vvl9@rediffmail.com">vvl9@rediffmail.com</a> <a href="mailto:kvklawngtalai@rediffmail.com">kvklawngtalai@rediffmail.com</a>
Ms. C. Racheal	:	PC KVK, Saiha	<a href="mailto:kvksaiha@gmail.com">kvksaiha@gmail.com</a> <a href="mailto:rachoza@gmail.com">rachoza@gmail.com</a>
Mr. Vanlalhrauaia Hnamte	:	PC KVK, Mamit	<a href="mailto:kvkmamit@yahoo.in">kvkmamit@yahoo.in</a>
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	<a href="mailto:Kpchy@rediffmail.com">Kpchy@rediffmail.com</a> <a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>



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**District: Lunglei**

**Period: 14 – 18 September, 2016**

**Bulletin No: - 636/2016/ Bulletin/English**

**Date of issue: 13<sup>th</sup> September, 2016**

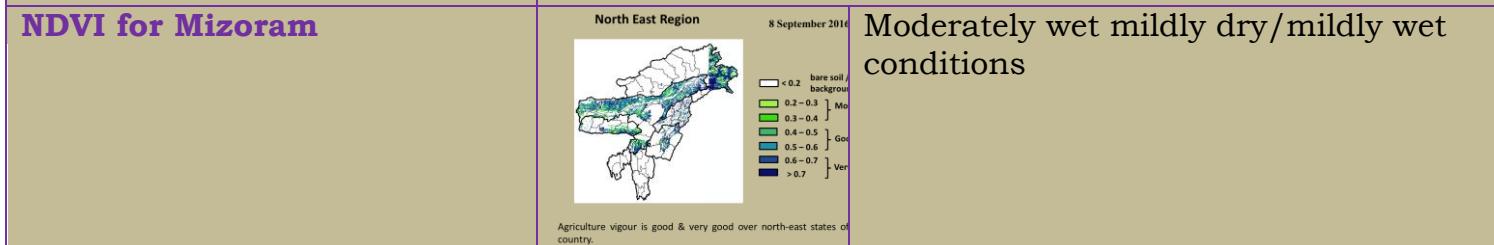
Parameters	14.09.2016	15.09.2016	16.09.2016	17.09.2016	18.09.2016
<b>Rainfall (mm)</b>	3	5	5	0	6
<b>Max Temp (°C)</b>	32	32	33	33	33
<b>Min Temp (°C)</b>	23	23	24	24	24
<b>Cloud Coverage</b>	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
<b>Max RH (%)</b>	98	99	100	99	99
<b>Min RH (%)</b>	72	73	74	77	75
<b>Wind Speed (KmpH)</b>	2	2	2	2	2
<b>*Wind Direction</b>	E	E	S-W	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)**

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

Weather summary of the past three days	Weather forecast valid from 14 <sup>th</sup> September, 2016 To 18 <sup>th</sup> September, 2016.
<b>Maximum Tem. (°C): 19-22°C</b> <b>Minimum Tem. (°C): 16-17°C</b> <b>Maximum RH (%): 96-99%</b> <b>Minimum RH (%): 78-90%</b> <b>Wind Direction: Southeasterly</b> <b>Cloud cover: Mainly cloudy</b> <b>Wind Speed: 3km/hr</b>  <b>Rainfall: 109.5 mm</b>	There are chances of light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 32-33°C and 23-24°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 72-77%. Wind direction would be easterly to southwesterly easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.  <b>Weekly cumulative rainfall: 19.0 mm</b>





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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
<b>Khasi Mandarin and acid lime</b>	<b>Flowering to fruit formation stage</b>	 KOLASIB AIZAWL MAMIT SERCHHIP Fruit fly	<ul style="list-style-type: none"><li>➡ In north-eastern parts of India, Khasi mandarins are very closely spaced (6 m. X 6 m.), accommodating more than 120 plants/ha.</li><li>➡ Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water for one hectare area).</li><li>➡ Make a circle near to the plant and apply 25 kg FYM along with 20 g urea and 125 g SSP.</li><li>➡ Remove all unwanted plants from near the base of the plant.</li><li>➡ Care should be taken to avoid water stagnation in the bags.</li></ul>
		 LUNGLEI Fruit fly LAWNGTLAI SAIHA Dia back disease	<ul style="list-style-type: none"><li>➡ 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.</li></ul>
<b>Passion Fruit</b>	<b>Flowering to Fruit formation stage</b>	 LUNGLEI Fruit fly LAWNGTLAI SAIHA	<ul style="list-style-type: none"><li>➡ Remove all infected plant and burn it.</li><li>➡ Pruning of effected part spraying with carbendazim/Bordeaux mixture 1.0%</li><li>➡ Clean near the base of the plant.</li><li>➡ In dry spell apply mulch with grass.</li><li>➡ Trellises are in the north-south direction to minimize the shades during early morning and late evening.</li><li>➡ Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water for one hectare area).</li><li>➡ Apply 100: 50:100g as NPK per plant.</li></ul>
		 LUNGLEI Fruit fly LAWNGTLAI SAIHA	<ul style="list-style-type: none"><li>➡ Collect and burn all infected plant.</li><li>➡ 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.</li></ul>



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<b>Banana</b>	<b>Harvesting stage</b>	 <b>KOLASIB</b> <b>MAMIT</b> <b>AIZAWL</b> <b>SERCHHIP</b> <b>LUNGLEI</b> <b>Lawngtlai</b> <b>SAIHA</b>	<ul style="list-style-type: none"> <li>✚ Change of colour from green to yellowish.</li> <li>✚ Fingers are about three quarters full i.e. 3/4 of fruit is rounded</li> <li>✚ Ridges should still be prominent on the remaining quarter of the finger.</li> <li>✚ Harvest bananas when they are swollen and green but before they become ripe (plump and yellow).</li> <li>✚ Too early (when the bananas are thin and dark green).</li> <li>✚ Too late (when they are thick and turning yellow).</li> </ul>
		<b>Banana Rhizome weevil</b> <b>AIZAWL</b>	<ul style="list-style-type: none"> <li>✚ 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 1<sup>st</sup> instars predominate which coincides with I Fortnight of July.</li> </ul>
		<b>Banana panama wilt</b>	<ul style="list-style-type: none"> <li>✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.</li> </ul>
		<b>Banana beetle</b>	<ul style="list-style-type: none"> <li>✚ Removal of weeds from basin</li> <li>✚ Removal of unwanted sucker</li> <li>✚ Application of alphamethrin @ 0.01%.</li> </ul>
<b>Pineapple</b>	<b>Harvest stage</b>	 <b>LUNGLEI</b> <b>Lawngtlai</b> <b>SAIHA</b>	<ul style="list-style-type: none"> <li>✚ A basal golden yellow coloration at the base is the sign of a ripe fruit.</li> <li>✚ Fresh fruits destined for the local market are plucked when almost ripe.</li> <li>✚ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).</li> </ul>
		<b>Rat damage</b>	<ul style="list-style-type: none"> <li>✚ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.</li> <li>✚ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields.</li> <li>✚ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent</li> </ul>



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			infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
<b>Oil plam</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>■ Time from flowering to harvesting of ripe fruit is 5-6 months.</li><li>■ Fruit brunch is tightly wedge in the leaf axil of the plam.</li><li>■ Brunch of a mature plam contains 1,000 to 4,000 fruits, depending on the trees agr and vigor.</li><li>■ Bunch weights at maturity 15-25 kg.</li><li>■ The percentage of fruits per bunch is usually 50-60%.</li><li>■ The egg shaped fruits weight 10-20 g.</li><li>■ The pulp around the nut contains the red palm oil.</li><li>■ The kernel in the nut contains oil very similar to coconut oil, but palm oil and palm kernel oil are chemically different.</li></ul>
<b>Colocasia</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>■ Remove unwanted plant near base of the plant and cut dead branches.</li><li>■ Earthing up soil at base of the plant along with split doses of fertilizer.</li><li>■ Proper drainage is required to avoid water logging.</li><li>■ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.</li></ul>
			<ul style="list-style-type: none"><li>■ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.</li></ul>
<b>Baibing (Local Vegetable)</b>	<b>Flowering to fruit formation stage</b>		<ul style="list-style-type: none"><li>■ Weed free near base of the plant.</li><li>■ Earthing of soil to the plant.</li><li>■ Apply split dose of fertilizer.</li><li>■ Apply 2g/pt when flower drop is observed.</li></ul>
<b>Cucurbitaceo us crop</b>	<b>Harvesting stage</b>		<ul style="list-style-type: none"><li>■ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application</li><li>■ Weeding can be done by hoeing as and when necessary.</li><li>■ Fruit rot during rainy season can be</li></ul>



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			checked by training the plants over the bamboo stick or dried branches. <span style="color: blue;">■</span> Harvest all mature fruit.
		<b>Fruit fly</b>  KOLASIB	<span style="color: blue;">■</span> 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.
<b>Okra</b>	<b>Harvesting stage</b>	MAMIT	<span style="color: blue;">■</span> Harvest all mature fruit. <span style="color: blue;">■</span> Keep over mature fruit for seed production. <span style="color: blue;">■</span> Keep dry fruits in sun for drying and store for next year
		<b>Okra leafroller</b>  AIZAWL	<span style="color: blue;">■</span> Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
<b>Cowpea</b>	<b>Fruit initiation to harvest</b>	SERCHHIP	<span style="color: blue;">■</span> Remove unwanted plant near base of the plant and cut dead branches. <span style="color: blue;">■</span> Earthing up soil at base of the plant along with split doses of fertilizer. <span style="color: blue;">■</span> Proper drainage is required to avoid water logging. <span style="color: blue;">■</span> Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. <span style="color: blue;">■</span> Harvest all mature fruit.
<b>Brinjal</b>	<b>Harvesting stage</b>	LUNGLEI	<span style="color: blue;">■</span> Harvest all mature fruit. <span style="color: blue;">■</span> Keep over mature fruit for seed production. <span style="color: blue;">■</span> Extract seeds from full ripened or over matured fruit. <span style="color: blue;">■</span> Keep extracted for sun dry and keep for next year.
		<b>Shoot and fruit borer</b>  LAWNGTEN SAIHA	<span style="color: blue;">■</span> Collect and destroy infected parts of the plant. <span style="color: blue;">■</span> Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
<b>Tomato</b>	<b>Transplanting stage</b>		<span style="color: blue;">■</span> Plant should be transplant at 4 leaf stage. <span style="color: blue;">■</span> Spacing: row to row-60cm and plant to plant- 45 cm.



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			<ul style="list-style-type: none"><li>Before transplant, seedling treated with 0.002% solution for 15 minutes.</li><li>Apply 120:80:60 kg NPK/ha in two split doses (50% at transplanting stage, 25% at vegetative stage and 25% at flowering stage).</li></ul>
		<b>Damping off</b> 	<ul style="list-style-type: none"><li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li><li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li></ul>
<b>Early Cole crop</b>	<b>Transplanting stage</b>	<b>Land preparation</b> 	<ul style="list-style-type: none"><li>Plant should be transplant at 4 leaf stage.</li><li>Spacing: row to row-60cm and plant to plant- 45 cm.</li><li>Before transplant, seedling treated with 0.002% solution for 15 minutes.</li><li>Apply 120:80:60 kg NPK/ha in two split doses (50% at transplanting stage, 25% at vegetative stage and 25% at flowering stage).</li></ul>
		<b>Damping off</b> 	<ul style="list-style-type: none"><li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed.</li><li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li></ul>
<b>Ginger and turmeric</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>Remove unwanted plant near base of the plant and cut dead branches.</li><li>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.</li><li>Earting up of soil along with fertilizer</li></ul>



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			mixture.
		<b>Turmeric shoot borer</b>	<ul style="list-style-type: none"> <li>⊕ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> </ul>
<b>Pre kharif Rice</b>	<b>Panicle Initiation to booting stage</b>	KOLASIB	<ul style="list-style-type: none"> <li>⊕ Remove unwanted plant by hand weeding.</li> <li>⊕ Apply split dose of fertilizer.</li> <li>⊕ Proper drainage is required to avoid water logging</li> </ul>
		<b>Rice yellow stem borer</b>	<ul style="list-style-type: none"> <li>⊕ Cut leaf tip from the seedling.</li> <li>⊕ Collect and destroy infected parts of the plant.</li> <li>⊕ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> </ul>
<b>Kharif Maize</b>	<b>Physiological maturity</b>	AIZAWL SERCHHIP	<ul style="list-style-type: none"> <li>⊕ Grain is not ready for safe storage Needs to be at 13-15% moisture for long-term storage May be advantageous to let crop partially dry in the field</li> <li>⊕ Frost has no effect on yield at this point. However, lodging from disease, insect damage or can result in physical loss of yield.</li> </ul>
		<b>Rat damage</b>	<ul style="list-style-type: none"> <li>⊕ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.</li> <li>⊕ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields.</li> <li>⊕ Keep the cobs in slender position from the stem.</li> <li>⊕ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Pig disease</b> LAWNGTIAI SAIHA	<ul style="list-style-type: none"> <li>⊕ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea.once the symptom are noticed, call veterinarian doctor.</li> </ul>



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		<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval <ul style="list-style-type: none"><li>• FMD vaccine at 16 week and repeat every 6 month.</li></ul>
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"><li>• Black Quarter Vaccine (BQV).<ul style="list-style-type: none"><li>❖ Primary vaccination 6 month or above</li><li>❖ Revaccination annually</li></ul></li></ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"><li>• Maintain light 12-14 hrs in brooder house.</li><li>• The litter should be 7.5- 10 cm deep.</li><li>• Saw dust, paddy husk or ground nut hulls can be used as litter.</li><li>• Add lime with Saw dust, paddy husk or ground nut for maintain moisture.</li></ul>
<b>Poultry</b>	<b>Litter management</b>	<b>AIZAWL</b>	<ul style="list-style-type: none"><li>• <b>Ranikhet Disease-</b> F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li><li>• B complex with antibodies</li></ul>
	<b>Preventive measures</b>	<b>0-3<sup>rd</sup> week</b>	<ul style="list-style-type: none"><li>• <b>Coccidiosis-</b> Amprolium or coccidiostat</li></ul>
		<b>4<sup>th</sup> weeks</b>	<ul style="list-style-type: none"><li>• Calcium tonic fortified with B<sub>12</sub></li></ul>
		<b>4-5<sup>th</sup> Weeks</b>	<ul style="list-style-type: none"><li>• Burn all the dead birds.</li><li>• Furaltadone@ 0.5 g/litre of water for 7 days.</li></ul>
	<b>Bacillary White Diarrhoea</b>	<b>LUM All stage</b>	



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**Expert committee members:**

<b>Dr. S.B. Singh</b>	:	Joint Director	<a href="mailto:basantasinghsoibam@rediffmail.com">basantasinghsoibam@rediffmail.com</a>
<b>Dr. Saurav Saha</b>	:	Scientist (Agril. Physics)	<a href="mailto:sauravs.saha@gmail.com">sauravs.saha@gmail.com</a>
<b>Dr. T. Boopathi</b>	:	Scientist (Agril Entomology)	<a href="mailto:boopathiars@gmail.com">boopathiars@gmail.com</a>
<b>Dr. Sudip Kumar Dutta</b>	:	Scientist (Hort.)	<a href="mailto:sudipiari@rediffmail.com">sudipiari@rediffmail.com</a>
<b>Dr. A. Ratankumar Singh</b>	:	Scientist (Plant Pathology)	<a href="mailto:ratanplantpatho@gmail.com">ratanplantpatho@gmail.com</a>
<b>Dr. L. H. Puii</b>	:	Scientist (Vet. Microbiology)	<a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>
<b>Dr. Lungmuana</b>	:	Scientist (Soil Fertility)	<a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>
<b>Dr. M. Thoithoi Devi</b>	:	Scientist (Agronomy)	<a href="mailto:thoigri@gmail.com">thoigri@gmail.com</a>
<b>Mr. Samik Chowdhury</b>	:	Technical Officer	<a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>
<b>Mr. Evans Syiem</b>	:	Meteorological Observer	<a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>
<b>Mr. Vanthawmliana</b>	:	Senior Research Fellow (Mizo language Translator)	<a href="mailto:Tom_tom79@yahoo.in">Tom_tom79@yahoo.in</a>
<b>Mrs. Monika Bora</b>	:	Meteorological Observer (IMD)	<a href="mailto:boramonika@rediffmail.com">boramonika@rediffmail.com</a>

**Collaborating Department:**

Name of the KVK	Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
<b>KVK Lunglei</b>	: <b>Dr. Lalmuanzovi</b> Head & Sr. Scientist	<a href="mailto:kvhnahthial@gmail.com">kvhnahthial@gmail.com</a>	9862803750 9436154614
<b>KVK, Kolasib</b>	: <b>Mr. Lalrosamga Khiangte</b> Head & Sr. Scientist	<a href="mailto:kvkkolasib@gmail.com">kvkkolasib@gmail.com</a>	9436152440
<b>KVK, Serchhip</b>	: <b>Mr. K. Laltlanmawia</b> Head & Sr. Scientist	<a href="mailto:kvkserchhip@gmail.com">kvkserchhip@gmail.com</a>	9436146115 9615389293
<b>KVK, Champhai</b>	: <b>Mrs. Lalrinawmi Renthlei</b> Head & Sr. Scientist	<a href="mailto:kvkkhawzawl@gmail.com">kvkkhawzawl@gmail.com</a>	9436159788
<b>KVK, Lawngtlai</b>	: <b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	<a href="mailto:kvklawntlai@gmail.com">kvklawntlai@gmail.com</a>	9436155858
<b>KVK, Saiha</b>	: <b>Dr. Vanlahruaia Hnampe</b> Head & Sr. Scientist	<a href="mailto:kvksaiha@gmail.com">kvksaiha@gmail.com</a>	8974656509
<b>KVK, Mamit</b>	: <b>Dr. Samuel Lalliansanga</b> Head & Sr. Scientist	<a href="mailto:kvkmamit@gmail.com">kvkmamit@gmail.com</a>	9436147625
<b>KVK, Aizawl</b>	: <b>Dr. K. P. Chaudhary</b> Head & Sr. Scientist	<a href="mailto:kpchy@rediffmail.com">kpchy@rediffmail.com</a> <a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>	9436351669



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**District: Lunglei**

**Period: 14 – 18 September, 2016**

**Bulletin No: - 636/2016/ Bulletin/Mizo**

**Date of issue: 13<sup>th</sup> September, 2016**

Parameters	14.09.2016	15.09.2016	16.09.2016	17.09.2016	18.09.2016
Rainfall (mm)	3	5	5	0	6
Max Temp (°C)	32	32	33	33	33
Min Temp (°C)	23	23	24	24	24
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	99	100	99	99
Min RH (%)	72	73	74	77	75
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	S-W	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)

<b>Ni thum kalta sik leh sa dinhmun tlangpui</b>	<b>14<sup>th</sup> September– 18<sup>th</sup> September, 2016</b> <b>chhunga sik leh sa dinhmun tur tlangpui</b>	
<b>Maximum Tem. (°C): 19-22°C</b> <b>Minimum Tem. (°C): 16-17°C</b> <b>Maximum RH (%): 96-99%</b> <b>Minimum RH (%): 78-90%</b> <b>Wind Direction: Southeasterly</b> <b>Cloud cover: Mainly cloudy</b> <b>Wind Speed: 3km/hr</b>  <b>Rainfall: 109.5 mm</b>	Ni 4 lo awm turah hian ruahui tam vak lo a tlak beisei a ni. Khua a lum lai berin 32-33°C a ni ang a. A vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai berin of 98-99% leh a hniam lai berin 72-77% 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.	<b>Weekly cumulative rainfall: 19.0mm</b>

<b>NDVI for Mizoram</b>	 North East Region 8 September 2016 Agriculture vigour is good & very good over north-east states of country.	Moderately wet mildly dry/mildly wet conditions
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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Phun sawn (transplant) hun		<ul style="list-style-type: none"> <li>⊕ Heng ser tiak te hi Ni zung hmuh thatna, thili laka him hmunah phun tur a ni.</li> <li>⊕ Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni.</li> <li>⊕ 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.</li> <li>⊕ 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.</li> <li>⊕ 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.</li> </ul>
		Citrus Cancar	<ul style="list-style-type: none"> <li>⊕ 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.</li> <li>⊕ Kung tlemte chauhin he natna an</li> </ul>



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		<p><b>Citrus leafminor and butterfly</b></p>	<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"> <li>▪ Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 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).</li> </ul>
<b>Oil Palm</b>	<b>A tet lai</b>		<ul style="list-style-type: none"> <li>▪ Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni.</li> <li>▪ Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni.</li> <li>▪ Oil palm tiak chu 2.5cm vela thuk in phum tur.</li> <li>▪ Nitin tui pek tur.</li> <li>▪ A tiak pakhat tan leitha SSP, MOP leh Mg<sub>2</sub>SO<sub>4</sub> cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni.</li> <li>▪ A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni.</li> <li>▪ Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.</li> </ul>
	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>▪ A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni.</li> <li>▪ Kung khatah 600:200:100 (NPK) hi hmun hniyah thena apply tur a ni.</li> <li>▪ 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.</li> </ul>



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Balhla	A par lai	KOLASIB	<ul style="list-style-type: none"> <li>Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.</li> </ul>
		MAMIT	<ul style="list-style-type: none"> <li>Balhla kung bul vel</li> <li>tihfai a a hnah ro te thlak bawk tur.</li> <li>Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni.</li> <li>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.</li> </ul>
		BANNAH CHAMPAI	<ul style="list-style-type: none"> <li>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).</li> </ul>
		Banana panama wilt	<ul style="list-style-type: none"> <li>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.</li> </ul>
	A hmin hun	LUNGLEI	<ul style="list-style-type: none"> <li>Balhla hi a par atanga ni 120-140 inkarah a hmin tlangpui.</li> <li>A raha kil a reh hnu, a mam pal hunah seng chauh tur a ni.</li> <li>Balhla bu a puitlin tawh chuan a hnah chung ber a ro tan thin.</li> </ul>
		Banana fruit caterpillar	<ul style="list-style-type: none"> <li>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.</li> </ul>
		Banana thrips	<ul style="list-style-type: none"> <li>A rah hunlaia polythene bag-a a kung tuam hian rannung thenkhat lakah a veng ve a ni.</li> </ul>
Sapthei	Phunsawn hunlai	SAIHA	<ul style="list-style-type: none"> <li>Rah chhuah tha, virus kai lo thlan tur a ni.</li> <li>Phunsawn atana kan lak hian a</li> </ul>



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			<p>kunga chawrno (bud) 3 tal a keng tel tur a ni.</p> <ul style="list-style-type: none"> <li>■ Phun sawn veleh hian maul eh polythene a siam hmun uap tak tak (chamber\0 ah dah tur a ni).</li> <li>■ <b>Grafting (a kung zawm):</b></li> <li>■ Sapthei chhung eng (yellow) hi polythene bag ah an phun a, Rahangala hybrid kung tantawi nen an zawm thin.</li> </ul> <p>A bulhnai vel tihfai that tur.</p> <p>Khaw ro lai chuan a zung bulah lei rihvur a, hnimhnah dah bawk tur a ni.</p> <p>Zingkar leh tlai lama Ni a hmuh that theihnan Hmarthlang lam hawitir tur a ni.</p> <p>A zar no ho a zamna tur siam mumal tur.</p> <p>Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw, acephate 1.0g emaw dimethoate 2ml emaw, tui litre khatah pawlh a, kah tur.</p> <p>A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni.</p> <p>Local market (khawchhunga hrakh nghan tur) atan chuan a hmin tan lek lek ah seng tur.</p> <p>Thawnchhuah tur atan erawh chuan a rawng a eng (yellow) hma hretah seng tur a ni.</p> <p>Sazu bu leh kua vel tihchhiat a, a hmun vel fai taka enkawl tur.</p> <p>Sazu chaw vel a awm loh nan hnim vel tihfai that tur.</p> <p>Sazu an tam viau chuan sazu tur 2% Zinc phosphide (96% buh nawi, 2% edible oil leh 2%ZnP) hman tur a ni.</p> <p>A bul vel tihfai that a, a zar tangkai lo ho pahi tur.</p>
	<b>Par a chhuah hma</b>		<p>Aphid</p>
Lakhuihthei	<b>A seng hunlai</b>		<p>Rat damage (Sazu in a tihchhiat)</p>
Colocasia	<b>Par a chhuah hma</b>		



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		<b>Corm borer</b>	<ul style="list-style-type: none"> <li>■ A zung bul rih vur a leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> </ul>
<b>Cucurbitaceous crops</b>	<b>A seng hun</b>	<b>AIZAWL</b>	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni.</li> <li>■ Tuthlawh hmangin hnime thlawn mai tur a ni.</li> <li>■ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni.</li> <li>■ A rah puitling ho chu seng nghal zel tur a ni.</li> </ul>
		<b>Fruit fly</b>	<ul style="list-style-type: none"> <li>■ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.</li> </ul>
<b>Bawrhsaibe</b>	<b>A par hma deuh atang a par thleng</b>	<b>LUNGLEI</b>	<ul style="list-style-type: none"> <li>■ A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni.</li> <li>■ A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni.</li> <li>■ Ruahtui tling a awm loh nan tui luankawr mumal siam tur a ni.</li> <li>■ A rah puitling apiang seng zel tur a ni.</li> </ul>
		<b>Okra leafroller</b>	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
<b>Behlawi</b>	<b>Rah a chhuah tan</b>		<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar</li> </ul>



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	<b>atanga seng hun thleng</b>		<p>tangkai lo ho pah tur.</p> <ul style="list-style-type: none"> <li>⊕ A zung bul rih vur a leitha vawihnih pek tur.</li> <li>⊕ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.</li> <li>⊕ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> <li>⊕ A rah puitling apiang seng zel tur.</li> </ul>
Bawbawn	<b>Rah a chhuah tan atanga seng hun thleng</b>		<ul style="list-style-type: none"> <li>⊕ A bul vel tihfai that a, a zar tangkai lo ho pah tur.</li> <li>⊕ Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnime to tam tur a veng.</li> <li>⊕ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, thlai thang a tichak bawk.</li> <li>⊕ Ram Hactare khata zauah leitha Urea 50kg hi hmum hniah thenin vawihnih phul tur a ni.</li> <li>⊕ A rah puitling apiang seng zel tur.</li> </ul>
	<b>Shoot and fruit borer (thlai kung leh a rah bawm chi rannung)</b>		<ul style="list-style-type: none"> <li>⊕ Natna in a tihchhiat tawh thlai peng lakthlak a pah tur.</li> <li>⊕ 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.</li> </ul>
	<b>Brinjal leaf beetle</b>		<ul style="list-style-type: none"> <li>⊕ 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.</li> </ul>
Kharif rice (Buh fur laia chin chi)	<b>Phun sawn hunlai</b>		<ul style="list-style-type: none"> <li>⊕ Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur.</li> <li>⊕ Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur.</li> </ul>



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Kharif rice	<b>A peng insiamtur zawng zawng insiam zawk hnu lawnk</b>	KOLASIB	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Pre Kharif Rice	<b>A vui inseam tan lai</b>	MAMIT	<ul style="list-style-type: none"> <li>■ A bul vela hnime leh thlaidang lo to ve palh te pawh thlawn tur.</li> <li>■ Leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luanna mumal tak siam tur.</li> </ul>
		RICE FIELD CHAMPAI	<b>Rice yellow stem borer</b>
Vaimim fur hma a seng chi	<b>A seng hun</b>	SERCHHIP	<ul style="list-style-type: none"> <li>■ A hnah hmawr tan tur.</li> <li>■ A kung hrisel lo lai pah tur</li> <li>■ Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.</li> </ul>
Vaimim fur hma hreta seng chi	<b>A kung puitlin hun</b>	LUNGLEI	<ul style="list-style-type: none"> <li>■ A kung bul vela hnime vel tihfai that tur.</li> <li>■ Leitha nena rihvur tur.</li> <li>■ Leitha vawi hnih pek tur.</li> </ul>
			<b>Maize cob borer (vaimim kawm bawmtu rannung)</b>
Sawhthing leh Aieng	<b>Par a chhuah hma</b>	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> <li>■ Thlai hnah, a tang ro leh hnime te chu pahfai vek tur.</li> <li>■ Lin tirk (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kg a.i ha<sup>-1</sup> Metolachlor (Dual) @1.5-2.0 kg a.i ha<sup>-1</sup>, Pendimethalin (Stomp)</li> </ul>



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			<p>@ 1-1.5kg a.i ha<sup>-1</sup> te hian hnimhnah lian lampang chi a veng a ni.</p>
		<b>Turmeric shoot borer (Aieng kung ei chhetu rannung) KOLASIB</b>	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Kharif pulses (Green gram, Black gram and Rajma)	<b>Par a chhuah atanga rah a chhuah thleng</b>		<ul style="list-style-type: none"> <li>■ A bul vela hnim leh thlaidang lo to ve te that a pail tur.</li> <li>■ A kung bulah rih vur tur.</li> <li>■ Natna kai tawh thlai te lakhawm a halral tur.</li> </ul>
	MAMIT	<b>Aphid and bug</b> AIZAWL CHAMPAI	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Vawk	<b>Kumtluanin</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	<p>1. A natna vei vawk te chu thah a phum tur a ni.</p>
	<b>A puitling hun</b>	<b>Swine fever.</b> SERCHHIP	<p>2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur</p>
Bawng	<b>Kumtluanin</b>	<b>Foot and Mouth Disease (FMD)</b> LUNGLEI	<ul style="list-style-type: none"> <li>• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.</li> </ul>
	<b>A naupan lai</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> <li>■ Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>■ Kumkhat hnu ah vaccine pek leh tur.</li> </ul> </li> </ul>
Ar	<b>Kumtluanin</b>	<b>Ranikhet Disease.</b> LAWNGTLAI SAIHA	<p>1. Ar note an pian hlimin F1 vaccine pek tur a nia an puitlin hunah R<sub>2</sub>B pek leh tur a ni.</p> <p>2. Amprolium emaw coccidiostat pek tur.</p>
		<b>Coccidiosis</b>	



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### Expert committee members:

<b>Dr. S.B. Singh</b>	:	Joint Director	<a href="mailto:basantasinghsoibam@rediffmail.com">basantasinghsoibam@rediffmail.com</a>
<b>Dr. Saurav Saha</b>	:	Scientist (Agril. Physics)	<a href="mailto:sauravs.saha@gmail.com">sauravs.saha@gmail.com</a>
<b>Dr. T. Boopathi</b>	:	Scientist (Agril Entomology)	<a href="mailto:boopathiars@gmail.com">boopathiars@gmail.com</a>
<b>Dr. Sudip Kumar Dutta</b>	:	Scientist (Hort.)	<a href="mailto:sudipiari@rediffmail.com">sudipiari@rediffmail.com</a>
<b>Dr. A. Ratankumar Singh</b>	:	Scientist (Plant Pathology)	<a href="mailto:ratanplantpatho@gmail.com">ratanplantpatho@gmail.com</a>
<b>Dr. L. H. Puii</b>	:	Scientist (Vet. Microbiology)	<a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>
<b>Dr. Lungmuana</b>	:	Scientist (Soil Fertility)	<a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>
<b>Dr Y. Ramakrishna</b>	:	Farm manager (T-6)	<a href="mailto:ramakrishnaiari@rediffmail.com">ramakrishnaiari@rediffmail.com</a>
<b>Mr. Samik Chowdhury</b>	:	Technical Officer	<a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>
<b>Mr. Evans Syiem</b>	:	Meteorological Observer	<a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>
<b>Mr. Vanthawmliana</b>	:	Senior Research Fellow (Mizo language Translator)	<a href="mailto:Tom_tom79@yahoo.in">Tom_tom79@yahoo.in</a>
<b>Mrs. Monika Bora</b>	:	Meteorological Observer	<a href="mailto:boramonika@rediffmail.com">boramonika@rediffmail.com</a>

### Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	<a href="mailto:kvklunglei@gmail.com">kvklunglei@gmail.com</a> <a href="mailto:kvknahthial@gmail.com">kvknahthial@gmail.com</a>
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	<a href="mailto:kvkkolasib@gmail.com">kvkkolasib@gmail.com</a>
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	<a href="mailto:Mmami997@yahoo.com">Mmami997@yahoo.com</a> <a href="mailto:kvksurchhip@gmail.com">kvksurchhip@gmail.com</a>
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	<a href="mailto:pckvkhawzawl@rediffmail.com">pckvkhawzawl@rediffmail.com</a>
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	<a href="mailto:vvl9@rediffmail.com">vvl9@rediffmail.com</a> <a href="mailto:kvklawngtalai@rediffmail.com">kvklawngtalai@rediffmail.com</a>
Ms. C. Racheal	:	PC KVK, Saiha	<a href="mailto:kvksaiha@gmail.com">kvksaiha@gmail.com</a> <a href="mailto:rachoza@gmail.com">rachoza@gmail.com</a>
Mr. Vanlalhrauaia Hnamte	:	PC KVK, Mamit	<a href="mailto:kvkmamit@yahoo.in">kvkmamit@yahoo.in</a>
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	<a href="mailto:Kpchy@rediffmail.com">Kpchy@rediffmail.com</a> <a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>



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**District:** Mamit

**Period:** 14 – 18 September, 2016

**Bulletin No:** - 636/2016/ Bulletin/English

**Date of issue:** 13<sup>th</sup> September, 2016

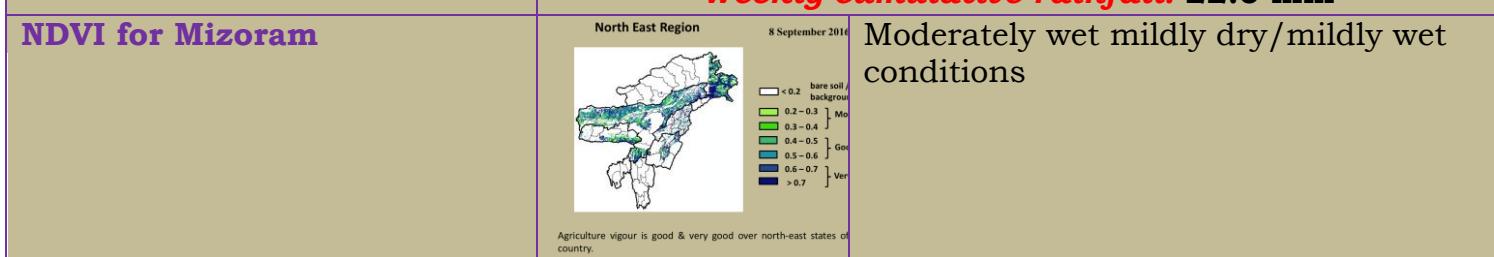
Parameters	14.09.2016	15.09.2016	16.09.2016	17.09.2016	18.09.2016
<b>Rainfall (mm)</b>	3	3	6	6	4
<b>Max Temp (°C)</b>	33	33	33	33	34
<b>Min Temp (°C)</b>	23	23	24	24	24
<b>Cloud Coverage</b>	Mainly cloudy				
<b>Max RH (%)</b>	97	98	99	98	99
<b>Min RH (%)</b>	72	62	76	85	62
<b>Wind Speed (KmPH)</b>	2	2	2	2	2
<b>*Wind Direction</b>	S-E	S-E	S-E	E	E

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

**STATUS OF MONSOON- 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 14 <sup>th</sup> September, 2016 To 18 <sup>th</sup> September, 2016.
<b>Maximum Tem. (°C):</b> 26-29°C <b>Minimum Tem. (°C):</b> 20-24°C <b>Maximum RH (%):</b> 99-100% <b>Minimum RH (%):</b> 75-95% <b>Wind Direction:</b> southeasterly <b>Cloud cover:</b> Mainly cloudy <b>Wind speed:</b> 3 km/hr  <b>Rainfall:</b> 130.8 mm	<p>There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 33-34°C and 23-24°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 62-85%. Wind direction would be southeasterly to easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.</p> <p style="text-align: center;"><b>Weekly cumulative rainfall: 22.0 mm</b></p>





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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
<b>Khasi Mandarin and acid lime</b>	<b>Flowering to fruit formation stage</b>	 KOLASIB AIZAWL MAMIT SERCHHIP Fruit fly	<ul style="list-style-type: none"><li>➡ In north-eastern parts of India, Khasi mandarins are very closely spaced (6 m. X 6 m.), accommodating more than 120 plants/ha.</li><li>➡ Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water for one hectare area).</li><li>➡ Make a circle near to the plant and apply 25 kg FYM along with 20 g urea and 125 g SSP.</li><li>➡ Remove all unwanted plants from near the base of the plant.</li><li>➡ Care should be taken to avoid water stagnation in the bags.</li></ul>
		 LUNGLEI Fruit fly LAWNGTLAI SAIHA	<ul style="list-style-type: none"><li>➡ 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.</li></ul>
<b>Passion Fruit</b>	<b>Flowering to Fruit formation stage</b>	 LUNGLEI Fruit fly LAWNGTLAI SAIHA	<ul style="list-style-type: none"><li>➡ Remove all infected plant and burn it.</li><li>➡ Pruning of effected part spraying with carbendazim/Bordeaux mixture 1.0%</li><li>➡ Clean near the base of the plant.</li><li>➡ In dry spell apply mulch with grass.</li><li>➡ Trellises are in the north-south direction to minimize the shades during early morning and late evening.</li><li>➡ Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water for one hectare area).</li><li>➡ Apply 100: 50:100g as NPK per plant.</li></ul>
		 LUNGLEI Fruit fly LAWNGTLAI SAIHA	<ul style="list-style-type: none"><li>➡ Collect and burn all infected plant.</li><li>➡ 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.</li></ul>



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Banana	Harvesting stage	KOLASIB	<ul style="list-style-type: none"><li>■ Change of colour from green to yellowish.</li><li>■ Fingers are about three quarters full i.e. 3/4 of fruit is rounded</li><li>■ Ridges should still be prominent on the remaining quarter of the finger.</li><li>■ Harvest bananas when they are swollen and green but before they become ripe (plump and yellow).</li><li>■ Too early (when the bananas are thin and dark green).</li><li>■ Too late (when they are thick and turning yellow).</li></ul>
	MAMIT	Banana Rhizome weevil AIZAWL	<ul style="list-style-type: none"><li>■ 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 1<sup>st</sup> instars predominate which coincides with I Fortnight of July.</li></ul>
	SERCHHIP	Banana panama wilt	<ul style="list-style-type: none"><li>■ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.</li></ul>
	LUNGLEI	Banana beetle	<ul style="list-style-type: none"><li>■ Removal of weeds from basin</li><li>■ Removal of unwanted sucker</li><li>■ Application of alphamethrin @ 0.01%.</li></ul>
Pineapple	Harvest stage	LAWNGTIA SAIHA	<ul style="list-style-type: none"><li>■ A basal golden yellow coloration at the base is the sign of a ripe fruit.</li><li>■ Fresh fruits destined for the local market are plucked when almost ripe.</li><li>■ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).</li></ul>
		Rat damage	<ul style="list-style-type: none"><li>■ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.</li><li>■ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields.</li><li>■ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent</li></ul>



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			infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
<b>Oil plam</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>■ Time from flowering to harvesting of ripe fruit is 5-6 months.</li><li>■ Fruit brunch is tightly wedge in the leaf axil of the plam.</li><li>■ Brunch of a mature plam contains 1,000 to 4,000 fruits, depending on the trees agr and vigor.</li><li>■ Bunch weights at maturity 15-25 kg.</li><li>■ The percentage of fruits per bunch is usually 50-60%.</li><li>■ The egg shaped fruits weight 10-20 g.</li><li>■ The pulp around the nut contains the red palm oil.</li><li>■ The kernel in the nut contains oil very similar to coconut oil, but palm oil and palm kernel oil are chemically different.</li></ul>
<b>Colocasia</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>■ Remove unwanted plant near base of the plant and cut dead branches.</li><li>■ Earthing up soil at base of the plant along with split doses of fertilizer.</li><li>■ Proper drainage is required to avoid water logging.</li><li>■ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.</li></ul>
<b>Cucurbitaceo us crop</b>	<b>Harvesting stage</b>		<ul style="list-style-type: none"><li>■ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.</li><li>■ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application</li><li>■ Weeding can be done by hoeing as and when necessary.</li><li>■ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches.</li><li>■ Harvest all mature fruit.</li><li>■ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension</li></ul>



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			containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
<b>Okra</b>	<b>Harvesting stage</b>	KOLASIB	<ul style="list-style-type: none"><li>■ Harvest all mature fruit.</li><li>■ Keep over mature fruit for seed production.</li><li>■ Keep dry fruits in sun for drying and store for next year</li></ul>
		Okra leafroller	<ul style="list-style-type: none"><li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
<b>Cowpea</b>	<b>Fruit initiation to harvest</b>	AIZAWL	<ul style="list-style-type: none"><li>■ Remove unwanted plant near base of the plant and cut dead branches.</li><li>■ Earthing up soil at base of the plant along with split doses of fertilizer.</li><li>■ Proper drainage is required to avoid water logging.</li><li>■ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.</li><li>■ Harvest all mature fruit.</li></ul>
<b>Brinjal</b>	<b>Harvesting stage</b>	SERCHHIP	<ul style="list-style-type: none"><li>■ Harvest all mature fruit.</li><li>■ Keep over mature fruit for seed production.</li><li>■ Extract seeds from full ripened or over matured fruit.</li><li>■ Keep extracted for sun dry and keep for next year.</li></ul>
		HINJELI	<ul style="list-style-type: none"><li>■ Collect and destroy infected parts of the plant.</li><li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
		Brinjal leaf beetle	<ul style="list-style-type: none"><li>■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.</li></ul>
<b>Tomato</b>	<b>Nursery stage</b>	Land preparation	<ul style="list-style-type: none"><li>■ Nursery preparation for tomato.</li><li>■ Raised bed, nursery bed solarisation.</li><li>■ Bed should be 1m width and conventional length.</li><li>■ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li><li>■ Line sowing of seeds (7-10cm)</li></ul>



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		<b>Damping off</b>	<ul style="list-style-type: none"> <li>➡ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>➡ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
<b>Ginger and turmeric</b>	<b>Vegetative stage</b>	 <b>KOLASIB</b> <b>MAMIT</b> <b>AIZAWL</b> <b>SERCHHIP</b> <b>LUNGLEI</b> <b>LAWNGTLAI</b> <b>SAIHA</b>	<ul style="list-style-type: none"> <li>➡ Remove unwanted plant near base of the plant and cut dead branches.</li> <li>➡ 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.</li> <li>➡ Earthing up of soil along with fertilizer mixture.</li> </ul>
		<b>Turmeric shoot borer</b>	<ul style="list-style-type: none"> <li>➡ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> </ul>
<b>Pre kharif Rice</b>	<b>Panicle Emergence stage</b>	 <b>KOLASIB</b> <b>AIZAWL</b> <b>MAMIT</b> <b>SERCHHIP</b> <b>LUNGLEI</b> <b>LAWNGTLAI</b> <b>SAIHA</b>	<ul style="list-style-type: none"> <li>➡ Remove unwanted plant by hand weeding.</li> <li>➡ Apply split dose of fertilizer.</li> <li>➡ Proper drainage is required to avoid water logging</li> </ul>
		<b>Rice yellow stem borer</b>	<ul style="list-style-type: none"> <li>➡ Cut leaf tip from the seedling.</li> <li>➡ Collect and destroy infected parts of the plant.</li> <li>➡ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> </ul>
		<b>Rice leafroller</b>	<ul style="list-style-type: none"> <li>➡ Stop indiscriminate use of fertilizer.</li> <li>➡ Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage and 2 ml/lt of water for heavy damage.</li> </ul>
<b>Kharif Maize</b>	<b>Harvesting stage</b>	 <b>KOLASIB</b> <b>AIZAWL</b> <b>MAMIT</b> <b>SERCHHIP</b> <b>LUNGLEI</b> <b>LAWNGTLAI</b> <b>SAIHA</b>	<ul style="list-style-type: none"> <li>➡ Harvest all mature cobs.</li> <li>➡ Keep all mature cobs for sun dry.</li> <li>➡ After sundry hang all cobs in smoke for reduce maize weevil attack.</li> </ul>
<b>Soybean</b>	<b>Sowing</b>	<b>Zero tillage</b>	<ul style="list-style-type: none"> <li>➡ Clean all debris from the jhum field.</li> <li>➡ Open the furrow with of dao or dibbler</li> </ul>



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			<p>or khurpee.</p> <ul style="list-style-type: none"> <li>■ Put recommended fertilizer dose and mix with soil.</li> <li>■ Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.</li> </ul>
<b>Kharif pulses (Green gram, Black gram and Rajma)</b>	<b>Harvesting stage</b>	<b>KOLASIB</b>	<ul style="list-style-type: none"> <li>■ Harvest all mature pods.</li> <li>■ Keep all mature pods for sun dry.</li> </ul>
		<b>Aphid and bug</b>	<ul style="list-style-type: none"> <li>■ Manually collect and destroy the insect.</li> <li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Pig disease</b>	<ul style="list-style-type: none"> <li>■ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea.once the symptom are noticed, call veterinarian doctor.</li> </ul>
		<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	<ol style="list-style-type: none"> <li>1. Culling of positive pigs or piglets.</li> </ol>
	<b>Adult stage</b>	<b>Swine fever.</b>	<ol style="list-style-type: none"> <li>2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval</li> </ol>
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"> <li>• FMD vaccine at 16 week and repeat every 6 month.</li> </ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQV).</li> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul>
<b>Poultry</b>	<b>Litter management</b>	<b>LAWNGTLAI SAIHA</b>	<ul style="list-style-type: none"> <li>■ Maintain light 12-14 hrs in brooder house.</li> <li>■ The litter should be 7.5- 10 cm deep.</li> <li>■ Saw dust, paddy husk or ground nut hulls can be used as litter.</li> <li>■ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.</li> </ul>



# GRAMIN KRISHI MAUSAM SEWA

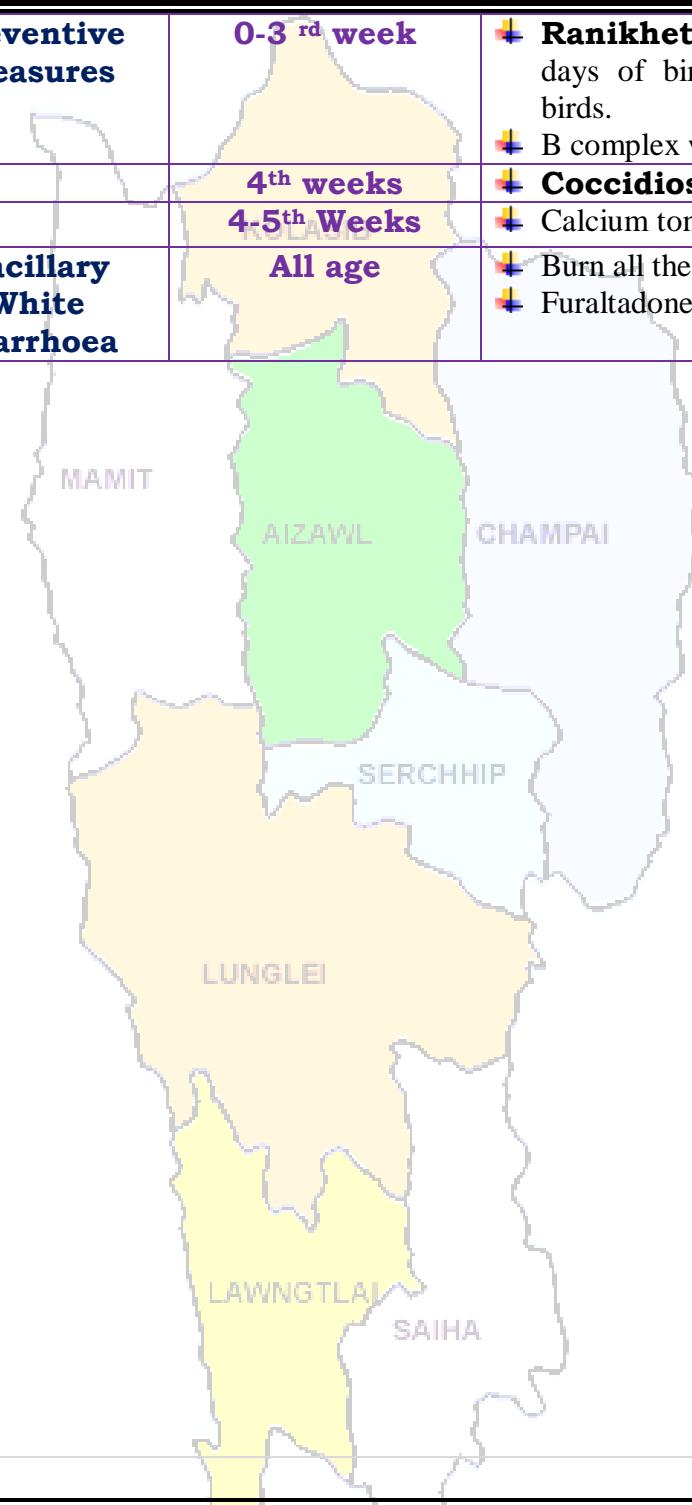
## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD,  
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	<b>Preventive measures</b>	<b>0-3<sup>rd</sup> week</b>	<ul style="list-style-type: none"><li>✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li><li>✚ B complex with antibodies</li></ul>
		<b>4<sup>th</sup> weeks</b>	<ul style="list-style-type: none"><li>✚ Coccidiosis- Amprolium or coccidiostat</li><li>✚ Calcium tonic fortified with B<sub>12</sub></li></ul>
		<b>4-5<sup>th</sup> Weeks</b>	<ul style="list-style-type: none"><li>✚ Burn all the dead birds.</li><li>✚ Furaltadone@ 0.5 g/litre of water for 7 days.</li></ul>
	<b>Bacillary White Diarrhoea</b>	<b>All age</b>	





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### Expert committee members:

<b>Dr. S.B. Singh</b>	:	Joint Director	<a href="mailto:basantasinghsoibam@rediffmail.com">basantasinghsoibam@rediffmail.com</a>
<b>Dr. Saurav Saha</b>	:	Scientist (Agril. Physics)	<a href="mailto:sauravs.saha@gmail.com">sauravs.saha@gmail.com</a>
<b>Dr. T. Boopathi</b>	:	Scientist (Agril Entomology)	<a href="mailto:boopathiars@gmail.com">boopathiars@gmail.com</a>
<b>Dr. Sudip Kumar Dutta</b>	:	Scientist (Hort.)	<a href="mailto:sudipiari@rediffmail.com">sudipiari@rediffmail.com</a>
<b>Dr. A. Ratankumar Singh</b>	:	Scientist (Plant Pathology)	<a href="mailto:ratanplantpatho@gmail.com">ratanplantpatho@gmail.com</a>
<b>Dr. L. H. Puii</b>	:	Scientist (Vet. Microbiology)	<a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>
<b>Dr. Lungmuana</b>	:	Scientist (Soil Fertility)	<a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>
<b>Dr. M. Thoithoi Devi</b>	:	Scientist (Agronomy)	<a href="mailto:thoigri@gmail.com">thoigri@gmail.com</a>
<b>Mr. Samik Chowdhury</b>	:	Technical Officer	<a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>
<b>Mr. Evans Syiem</b>	:	Meteorological Observer	<a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>
<b>Mr. Vanthawmliana</b>	:	Senior Research Fellow (Mizo language Translator)	<a href="mailto:Tom_tom79@yahoo.in">Tom_tom79@yahoo.in</a>
<b>Mrs. Monika Bora</b>	:	Meteorological Observer (IMD)	<a href="mailto:boramonika@rediffmail.com">boramonika@rediffmail.com</a>

### Collaborating Department:

Name of the KVK	Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
<b>KVK Lunglei</b>	: <b>Dr. Lalmuanzovi</b> Head & Sr. Scientist	<a href="mailto:kvhnahthial@gmail.com">kvhnahthial@gmail.com</a>	9862803750 9436154614
<b>KVK, Kolasib</b>	: <b>Mr. Lalrosamga Khiangte</b> Head & Sr. Scientist	<a href="mailto:kvkkolasib@gmail.com">kvkkolasib@gmail.com</a>	9436152440
<b>KVK, Serchhip</b>	: <b>Mr. K. Laltlanmawia</b> Head & Sr. Scientist	<a href="mailto:kvkserchhip@gmail.com">kvkserchhip@gmail.com</a>	9436146115 9615389293
<b>KVK, Champhai</b>	: <b>Mrs. Lalrinawmi Renthlei</b> Head & Sr. Scientist	<a href="mailto:kvkkhawzawl@gmail.com">kvkkhawzawl@gmail.com</a>	9436159788
<b>KVK, Lawngtlai</b>	: <b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	<a href="mailto:kvklawntlai@gmail.com">kvklawntlai@gmail.com</a>	9436155858
<b>KVK, Saiha</b>	: <b>Dr. Vanlahruaia Hnampe</b> Head & Sr. Scientist	<a href="mailto:kvksaiha@gmail.com">kvksaiha@gmail.com</a>	8974656509
<b>KVK, Mamit</b>	: <b>Dr. Samuel Lalliansanga</b> Head & Sr. Scientist	<a href="mailto:kvkmamit@gmail.com">kvkmamit@gmail.com</a>	9436147625
<b>KVK, Aizawl</b>	: <b>Dr. K. P. Chaudhary</b> Head & Sr. Scientist	<a href="mailto:Kpchy@rediffmail.com">Kpchy@rediffmail.com</a> <a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>	9436351669



# 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:** 14 – 18 September, 2016

**Bulletin No:** - 636/2016/ Bulletin/Mizo

**Date of issue:** 13<sup>th</sup> September, 2016

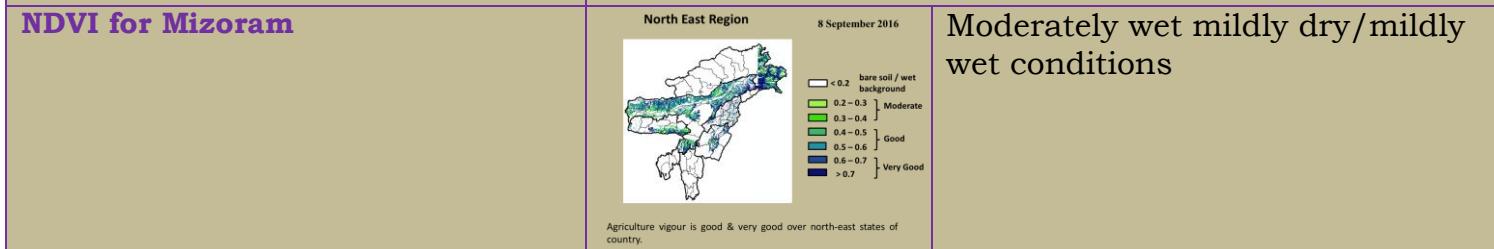
Parameters	14.09.2016	15.09.2016	16.09.2016	17.09.2016	18.09.2016
Rainfall (mm)	3	3	6	6	4
Max Temp (°C)	33	33	33	33	34
Min Temp (°C)	23	23	24	24	24
Cloud Coverage	Mainly cloudy				
Max RH (%)	97	98	99	98	99
Min RH (%)	72	62	76	85	62
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	S-E	S-E	S-E	E	E

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

**STATUS OF MONSOON- 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)

<b>Ni thum kalta sik leh sa dinhmun tlangpui</b>  <b>Maximum Tem.</b> (°C): <b>26-29°C</b> <b>Minimum Tem.</b> (°C): <b>20-24°C</b> <b>Maximum RH (%)</b> : <b>99-100%</b> <b>Minimum RH (%)</b> : <b>75-95%</b> <b>Wind Direction</b> : <b>southeasterly</b> <b>Cloud cover</b> : <b>Mainly cloudy</b> <b>Wind speed</b> : <b>3 km/hr</b>  <b>Rainfall</b> : <b>130.8 mm</b>	<b>14<sup>th</sup> September- 18<sup>th</sup> September, 2016</b> <b>chhunga sik leh sa dinhmun tur tlangpui</b>  Ni 5 lo awm turah hian ruahui tam vak lo a tlak beisei a ni. Khua a lum lai berin 33-34°C a ni ang a. A vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 62-85% 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.  <b>Weekly cumulative rainfall</b> : <b>22.0mm</b>
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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		<ul style="list-style-type: none"> <li>⊕ Heng ser tiak te hi Ni zung hmuh thatna, thili laka him hmunah phun tur a ni.</li> <li>⊕ Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni.</li> <li>⊕ 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.</li> <li>⊕ 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.</li> <li>⊕ 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.</li> </ul>
		Citrus Cancar	<ul style="list-style-type: none"> <li>⊕ 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.</li> <li>⊕ Kung tlemte chauhin he natna an</li> </ul>



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			vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.
		<b>Citrus leafminor and butterfly</b>	<ul style="list-style-type: none"> <li>■ Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 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).</li> </ul>
<b>Oil Palm</b>	<b>A tet lai</b>		<ul style="list-style-type: none"> <li>■ Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni.</li> <li>■ Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni.</li> <li>■ Oil palm tiak chu 2.5cm vela thuk in phum tur.</li> <li>■ Nitin tui pek tur.</li> <li>■ A tiak pakhat tan leitha SSP, MOP leh Mg<sub>2</sub>SO<sub>4</sub> cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni.</li> <li>■ A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni.</li> <li>■ Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.</li> </ul>
	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>■ A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni.</li> <li>■ Kung khatah 600:200:100 (NPK) hi hmun hniyah thena apply tur a ni.</li> <li>■ 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.</li> </ul>



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Balhla	A par lai	KOLASIB	<ul style="list-style-type: none"> <li>Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.</li> </ul>
		MAMIT	<ul style="list-style-type: none"> <li>Balhla kung bul vel</li> <li>tihfai a a hnah ro te thlak bawk tur.</li> <li>Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni.</li> <li>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.</li> </ul>
		BANNAH CHAMPAI	<ul style="list-style-type: none"> <li>Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 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).</li> </ul>
		Banana panama wilt	<ul style="list-style-type: none"> <li>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.</li> </ul>
	A hmin hun	LUNGLEI	<ul style="list-style-type: none"> <li>Balhla hi a par atanga ni 120-140 inkarah a hmin tlangpui.</li> <li>A raha kil a reh hnu, a mam pal hunah seng chauh tur a ni.</li> <li>Balhla bu a puitlin tawh chuan a hnah chung ber a ro tan thin.</li> </ul>
		Banana fruit caterpillar	<ul style="list-style-type: none"> <li>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.</li> </ul>
		Banana thrips	<ul style="list-style-type: none"> <li>A rah hunlaia polythene bag-a a kung tuam hian rannung thenkhat lakah a veng ve a ni.</li> </ul>
Sapthei	Phunsawn hunlai	SAIHA	<ul style="list-style-type: none"> <li>Rah chhuah tha, virus kai lo thlan tur a ni.</li> <li>Phunsawn atana kan lak hian a</li> </ul>



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			<p>kunga chawrno (bud) 3 tal a keng tel tur a ni.</p> <ul style="list-style-type: none"> <li>■ Phun sawn veleh hian maul eh polythene a siam hmun uap tak tak (chamber\0 ah dah tur a ni).</li> <li>■ <b>Grafting (a kung zawm):</b></li> <li>■ Sapthei chhung eng (yellow) hi polythene bag ah an phun a, Rahangala hybrid kung tantawi nen an zawm thin.</li> </ul>
	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>■ A bulhnai vel tihfai that tur.</li> <li>■ Khaw ro lai chuan a zung bulah lei rihvur a, hnimhnah dah bawk tur a ni.</li> <li>■ Zingkar leh tlai lama Ni a hmuh that theihnan Hmarthlang lam hawitir tur a ni.</li> <li>■ A zar no ho a zamna tur siam mumal tur.</li> </ul>
			<ul style="list-style-type: none"> <li>■ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw, acephate 1.0g emaw dimethoate 2ml emaw, tui litre khatah pawlh a, kah tur.</li> </ul>
Lakhuihthei	<b>A seng hunlai</b>		<ul style="list-style-type: none"> <li>■ A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni.</li> <li>■ Local market (khawchhunga hrall nghal tur) atan chuan a hmin tan lek lek ah seng tur.</li> <li>■ Thawnchhuah tur atan erawh chuan a rawng a eng (yellow) hma hretah seng tur a ni.</li> </ul>
			<ul style="list-style-type: none"> <li>■ Sazu bu leh kua vel tihchhiat a, a hmun vel fai taka enkawl tur.</li> <li>■ Sazu chaw vel a awm loh nan hnim vel tihfai that tur.</li> <li>■ Sazu an tam viau chuan sazu tur 2% Zinc phosphide (96% buh nawi, 2% edible oil leh 2%ZnP) hman tur a ni.</li> </ul>
Colocasia	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar tangkai lo ho pahi tur.</li> </ul>



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		<b>Corm borer</b>	<ul style="list-style-type: none"> <li>■ A zung bul rih vur a leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> </ul>
<b>Cucurbitaceous crops</b>	<b>A seng hun</b>	<b>AIZAWL</b>	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni.</li> <li>■ Tuthlawh hmangin hnime thlawn mai tur a ni.</li> <li>■ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni.</li> <li>■ A rah puitling ho chu seng nghal zel tur a ni.</li> </ul>
		<b>Fruit fly</b>	<ul style="list-style-type: none"> <li>■ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.</li> </ul>
<b>Bawrhsaibe</b>	<b>A par hma deuh atang a par thleng</b>	<b>LUNGLEI</b>	<ul style="list-style-type: none"> <li>■ A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni.</li> <li>■ A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni.</li> <li>■ Ruah tui tling a awm loh nan tui luankawr mumal siam tur a ni.</li> <li>■ A rah puitling apiang seng zel tur a ni.</li> </ul>
		<b>Okra leafroller</b>	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
<b>Behlawi</b>	<b>Rah a chhuah tan</b>		<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar</li> </ul>



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	<b>atanga seng hun thleng</b>		<p>tangkai lo ho pah tur.</p> <ul style="list-style-type: none"> <li>■ A zung bul rih vur a leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> <li>■ A rah puitling apiang seng zel tur.</li> </ul>
Bawkbawn	<b>Rah a chhuah tan atanga seng hun thleng</b>		<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar tangkai lo ho pah tur.</li> <li>■ Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnime to tam tur a veng.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, thlai thang a tichak bawk.</li> <li>■ Ram Hactare khata zauah leitha Urea 50kg hi hmum hniah thenin vawihnih phul tur a ni.</li> <li>■ A rah puitling apiang seng zel tur.</li> </ul>
	<b>Shoot and fruit borer (thlai kung leh a rah bawm chi rannung)</b>		<ul style="list-style-type: none"> <li>■ Natna in a tihchhiat tawh thlai peng lakthlak a pah tur.</li> <li>■ 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.</li> </ul>
	<b>Brinjal leaf beetle</b>		<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Kharif rice (Buh fur laia chin chi)	<b>Phun sawn hunlai</b>		<ul style="list-style-type: none"> <li>■ Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur.</li> <li>■ Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur.</li> </ul>



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Kharif rice	<b>A peng insiamtur zawng zawng insiam zawn hnu lawk</b>	KOLASIB	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Pre Kharif Rice	<b>A vui inseam tan lai</b>	MAMIT	<ul style="list-style-type: none"> <li>■ A bul vela hnime leh thlaidang lo to ve palh te pawh thlawn tur.</li> <li>■ Leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luanna mumal tak siam tur.</li> </ul>
		RICE TAWN CHAMPAI	<b>Rice yellow stem borer</b>
Vaimim fur hma a seng chi	<b>A seng hun</b>	SERCHHIP	<ul style="list-style-type: none"> <li>■ A hnah hmawr tan tur.</li> <li>■ A kung hrisel lo lai pah tur</li> <li>■ Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.</li> </ul>
Vaimim fur hma hreta seng chi	<b>A kung puitlin hun</b>	LUNGLEI	<ul style="list-style-type: none"> <li>■ A kung bul vela hnime vel tihfai that tur.</li> <li>■ Leitha nena rihvur tur.</li> <li>■ Leitha vawi hnih pek tur.</li> </ul>
			<b>Maize cob borer (vaimim kawm bawmtu rannung)</b>
Sawhthing leh Aieng	<b>Par a chhuah hma</b>	LAWNGTLA SAIHA	<ul style="list-style-type: none"> <li>■ Thlai hnah, a tang ro leh hnime te chu pahfai vek tur.</li> <li>■ Lin tirk (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kg a.i ha<sup>-1</sup> Metolachlor (Dual) @1.5-2.0 kg a.i ha<sup>-1</sup>, Pendimethalin (Stomp)</li> </ul>



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			<p>@ 1-1.5kg a.i ha<sup>-1</sup> te hian hnimhnah lian lampang chi a veng a ni.</p>
		<b>Turmeric shoot borer (Aieng kung ei chhetu rannung) KOLASIB</b>	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Kharif pulses (Green gram, Black gram and Rajma)	<b>Par a chhuah atanga rah a chhuah thleng</b>		<ul style="list-style-type: none"> <li>■ A bul vela hnim leh thlaidang lo to ve te that a pail tur.</li> <li>■ A kung bulah rih vur tur.</li> <li>■ Natna kai tawh thlai te lakhawm a halral tur.</li> </ul>
	MAMIT	<b>Aphid and bug</b> AIZAWL CHAMPAI	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Vawk	<b>Kumtluanin</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	<p>1. A natna vei vawk te chu thah a phum tur a ni.</p>
	<b>A puitling hun</b>	<b>Swine fever.</b> SERCHHIP	<p>2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur</p>
Bawng	<b>Kumtluanin</b>	<b>Foot and Mouth Disease (FMD)</b> LUNGLEI	<ul style="list-style-type: none"> <li>• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.</li> </ul>
	<b>A naupan lai</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> <li>■ Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>■ Kumkhat hnu ah vaccine pek leh tur.</li> </ul> </li> </ul>
Ar	<b>Kumtluanin</b>	<b>Ranikhet Disease.</b> LAWNGTLAI SAIHA	<p>1. Ar note an pian hlimin F1 vaccine pek tur a nia an puitlin hunah R<sub>2</sub>B pek leh tur a ni.</p> <p>2. Amprolium emaw coccidiostat pek tur.</p>
		<b>Coccidiosis</b>	



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### Expert committee members:

<b>Dr. S.B. Singh</b>	:	Joint Director	<a href="mailto:basantasinghsoibam@rediffmail.com">basantasinghsoibam@rediffmail.com</a>
<b>Dr. Saurav Saha</b>	:	Scientist (Agril. Physics)	<a href="mailto:sauravs.saha@gmail.com">sauravs.saha@gmail.com</a>
<b>Dr. T. Boopathi</b>	:	Scientist (Agril Entomology)	<a href="mailto:boopathiars@gmail.com">boopathiars@gmail.com</a>
<b>Dr. Sudip Kumar Dutta</b>	:	Scientist (Hort.)	<a href="mailto:sudipiari@rediffmail.com">sudipiari@rediffmail.com</a>
<b>Dr. A. Ratankumar Singh</b>	:	Scientist (Plant Pathology)	<a href="mailto:ratanplantpatho@gmail.com">ratanplantpatho@gmail.com</a>
<b>Dr. L. H. Puii</b>	:	Scientist (Vet. Microbiology)	<a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>
<b>Dr. Lungmuana</b>	:	Scientist (Soil Fertility)	<a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>
<b>Dr Y. Ramakrishna</b>	:	Farm manager (T-6)	<a href="mailto:ramakrishnaiari@rediffmail.com">ramakrishnaiari@rediffmail.com</a>
<b>Mr. Samik Chowdhury</b>	:	Technical Officer	<a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>
<b>Mr. Evans Syiem</b>	:	Meteorological Observer	<a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>
<b>Mr. Vanthawmliana</b>	:	Senior Research Fellow (Mizo language Translator)	<a href="mailto:Tom_tom79@yahoo.in">Tom_tom79@yahoo.in</a>
<b>Mrs. Monika Bora</b>	:	Meteorological Observer	<a href="mailto:boramonika@rediffmail.com">boramonika@rediffmail.com</a>

### Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	<a href="mailto:kvklunglei@gmail.com">kvklunglei@gmail.com</a> <a href="mailto:kvknahthial@gmail.com">kvknahthial@gmail.com</a>
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	<a href="mailto:kvkkolasib@gmail.com">kvkkolasib@gmail.com</a>
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	<a href="mailto:Mmami997@yahoo.com">Mmami997@yahoo.com</a> <a href="mailto:kvksurchhip@gmail.com">kvksurchhip@gmail.com</a>
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	<a href="mailto:pckvkhawzawl@rediffmail.com">pckvkhawzawl@rediffmail.com</a>
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	<a href="mailto:vvl9@rediffmail.com">vvl9@rediffmail.com</a> <a href="mailto:kvklawngtalai@rediffmail.com">kvklawngtalai@rediffmail.com</a>
Ms. C. Racheal	:	PC KVK, Saiha	<a href="mailto:kvksaiha@gmail.com">kvksaiha@gmail.com</a> <a href="mailto:rachoza@gmail.com">rachoza@gmail.com</a>
Mr. Vanlalhrauaia Hnamte	:	PC KVK, Mamit	<a href="mailto:kvkmamit@yahoo.in">kvkmamit@yahoo.in</a>
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	<a href="mailto:Kpchy@rediffmail.com">Kpchy@rediffmail.com</a> <a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>



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**District:** Saiha

**Period:** 14 – 18 September, 2016

**Bulletin No:** - 636/2016/ Bulletin/English

**Date of issue:** 13<sup>th</sup> September, 2016

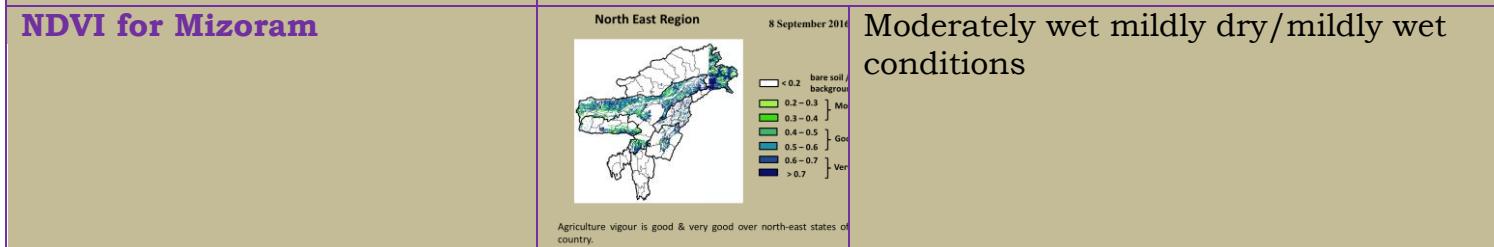
Parameters	14.09.2016	15.09.2016	16.09.2016	17.09.2016	18.09.2016
<b>Rainfall (mm)</b>	5	6	7	4	8
<b>Max Temp (°C)</b>	32	32	32	33	33
<b>Min Temp (°C)</b>	23	23	24	24	24
<b>Cloud Coverage</b>	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
<b>Max RH (%)</b>	100	100	100	100	100
<b>Min RH (%)</b>	80	80	81	87	81
<b>Wind Speed (KmpH)</b>	0	0	0	0	2
<b>*Wind Direction</b>	E	E	S-W	E	N-E

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

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

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

Weather summary of the past three days	Weather forecast valid from 14 <sup>th</sup> September, 2016 To 18 <sup>th</sup> September, 2016.
<b>Maximum Tem. (°C):</b> 18-21°C <b>Minimum Tem. (°C):</b> 15-17°C <b>Maximum RH (%):</b> 96-100% <b>Minimum RH (%):</b> 79-92% <b>Wind Direction:</b> Southwesterly <b>Cloud cover:</b> Mainly cloudy <b>Wind Speed:</b> 3km/hr  <b>Rainfall:</b> 95.2 mm	<p>There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 32-33°C and 23-24°C. Maximum relative humidity is expected in the range of 100% and minimum may from 80-87%. Wind direction would be easterly to southwesterly to easterly and northeasterly with the wind speed of 0-2 km per hour. Mainly cloudy sky will prevail during the next five days.</p> <p style="text-align: center;"><b>Weekly cumulative rainfall: 30.0 mm</b></p>





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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
<b>Khasi Mandarin and acid lime</b>	<b>Flowering to fruit formation stage</b>	<p style="text-align: center;">KOLASIB MAMIT AIZAWL SERCHHIP</p> <p><b>Fruit fly</b></p>	<ul style="list-style-type: none"> <li>➡ In north-eastern parts of India, Khasi mandarins are very closely spaced (6 m. X 6 m.), accommodating more than 120 plants/ha.</li> <li>➡ Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water for one hectare area).</li> <li>➡ Make a circle near to the plant and apply 25 kg FYM along with 20 g urea and 125 g SSP.</li> <li>➡ Remove all unwanted plants from near the base of the plant.</li> <li>➡ Care should be taken to avoid water stagnation in the bags.</li> </ul>
		<p style="text-align: center;">LUNGLEI LAWNGTLAI SAIHA</p> <p><b>Dia back disease</b></p>	<ul style="list-style-type: none"> <li>➡ 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.</li> </ul>
<b>Passion Fruit</b>	<b>Flowering to Fruit formation stage</b>	<p style="text-align: center;">LUNGLEI LAWNGTLAI SAIHA</p>	<ul style="list-style-type: none"> <li>➡ Remove all infected plant and burn it.</li> <li>➡ Pruning of effected part spraying with carbendazim/Bordeaux mixture 1.0%</li> <li>➡ Clean near the base of the plant.</li> <li>➡ In dry spell apply mulch with grass.</li> <li>➡ Trellises are in the north-south direction to minimize the shades during early morning and late evening.</li> <li>➡ Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water for one hectare area).</li> <li>➡ Apply 100: 50:100g as NPK per plant.</li> </ul>
		<p style="text-align: center;">LUNGLEI LAWNGTLAI SAIHA</p>	<ul style="list-style-type: none"> <li>➡ Collect and burn all infected plant.</li> <li>➡ 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.</li> </ul>



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Banana	Harvesting stage	Map showing districts: Kolasib, Mamit, Aizawl, Serchhip, Lunglei, Lawngtlai, Saitia.	Pre-harvesting tips for banana:
		KOLASIB	<ul style="list-style-type: none"><li>✚ Change of colour from green to yellowish.</li><li>✚ Fingers are about three quarters full i.e. 3/4 of fruit is rounded</li><li>✚ Ridges should still be prominent on the remaining quarter of the finger.</li><li>✚ Harvest bananas when they are swollen and green but before they become ripe (plump and yellow).</li><li>✚ Too early (when the bananas are thin and dark green).</li><li>✚ Too late (when they are thick and turning yellow).</li></ul>
	MAMIT	Banana Rhizome weevil AIZAWL	<ul style="list-style-type: none"><li>✚ 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 1<sup>st</sup> instars predominate which coincides with I Fortnight of July.</li></ul>
		Banana panama wilt SERCHHIP	<ul style="list-style-type: none"><li>✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.</li></ul>
		Banana beetle LUNGLEI	<ul style="list-style-type: none"><li>✚ Removal of weeds from basin</li><li>✚ Removal of unwanted sucker</li><li>✚ Application of alphamethrin @ 0.01%.</li></ul>
Pineapple	Harvest stage	LUNGLEI	<ul style="list-style-type: none"><li>✚ A basal golden yellow coloration at the base is the sign of a ripe fruit.</li><li>✚ Fresh fruits destined for the local market are plucked when almost ripe.</li><li>✚ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).</li></ul>
		Rat damage LAWNGTLAI SAIHA	<ul style="list-style-type: none"><li>✚ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.</li><li>✚ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields.</li><li>✚ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent</li></ul>



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			infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
<b>Oil plam</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>■ Time from flowering to harvesting of ripe fruit is 5-6 months.</li><li>■ Fruit brunch is tightly wedge in the leaf axil of the plam.</li><li>■ Brunch of a mature plam contains 1,000 to 4,000 fruits, depending on the trees agr and vigor.</li><li>■ Bunch weights at maturity 15-25 kg.</li><li>■ The percentage of fruits per bunch is usually 50-60%.</li><li>■ The egg shaped fruits weight 10-20 g.</li><li>■ The pulp around the nut contains the red palm oil.</li><li>■ The kernel in the nut contains oil very similar to coconut oil, but palm oil and palm kernel oil are chemically different.</li></ul>
<b>Colocasia</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>■ Remove unwanted plant near base of the plant and cut dead branches.</li><li>■ Earthing up soil at base of the plant along with split doses of fertilizer.</li><li>■ Proper drainage is required to avoid water logging.</li><li>■ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.</li></ul>
			<ul style="list-style-type: none"><li>■ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.</li></ul>
<b>Baibing (Local Vegetable)</b>	<b>Flowering to fruit formation stage</b>		<ul style="list-style-type: none"><li>■ Weed free near base of the plant.</li><li>■ Earthing of soil to the plant.</li><li>■ Apply split dose of fertilizer.</li><li>■ Apply 2g/pt when flower drop is observed.</li></ul>
<b>Cucurbitaceo us crop</b>	<b>Harvesting stage</b>		<ul style="list-style-type: none"><li>■ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application</li><li>■ Weeding can be done by hoeing as and when necessary.</li><li>■ Fruit rot during rainy season can be</li></ul>



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			checked by training the plants over the bamboo stick or dried branches. Harvest all mature fruit.
		Fruit fly KOLASIB	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. Harvest all mature fruit. Keep over mature fruit for seed production. Keep dry fruits in sun for drying and store for next year
Okra	Harvesting stage	MAMIT Okra leafroller AIZAWL	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	SERCHHIP	Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. Harvest all mature fruit.
Brinjal	Harvesting stage	LUNGLEI	Harvest all mature fruit. Keep over mature fruit for seed production. Extract seeds from full ripened or over matured fruit. Keep extracted for sun dry and keep for next year.
		Shoot and fruit borer LAWNGTIA SAIHA	Collect and destroy infected parts of the plant. Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Tomato	Transplanting stage		Plant should be transplant at 4 leaf stage. Spacing: row to row-60cm and plant to plant- 45 cm.



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			<ul style="list-style-type: none"> <li>Before transplant, seedling treated with 0.002% solution for 15 minutes.</li> <li>Apply 120:80:60 kg NPK/ha in two split doses (50% at transplanting stage, 25% at vegetative stage and 25% at flowering stage).</li> </ul>
		<b>Damping off</b>	<ul style="list-style-type: none"> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
<b>Early Cole crop</b>	<b>Transplanting stage</b>	<b>Land preparation</b>	<ul style="list-style-type: none"> <li>Plant should be transplant at 4 leaf stage.</li> <li>Spacing: row to row-60cm and plant to plant- 45 cm.</li> <li>Before transplant, seedling treated with 0.002% solution for 15 minutes.</li> <li>Apply 120:80:60 kg NPK/ha in two split doses (50% at transplanting stage, 25% at vegetative stage and 25% at flowering stage).</li> </ul>
		<b>Damping off</b>	<ul style="list-style-type: none"> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed.</li> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
<b>Ginger and turmeric</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"> <li>Remove unwanted plant near base of the plant and cut dead branches.</li> <li>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.</li> <li>Earting up of soil along with fertilizer</li> </ul>



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			<p>mixture.</p> <ul style="list-style-type: none"> <li>■ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> </ul>
<b>Pre kharif Rice</b>	<b>Panicle Initiation to booting stage</b>	<b>Turmeric shoot borer</b> 	<ul style="list-style-type: none"> <li>■ Remove unwanted plant by hand weeding.</li> <li>■ Apply split dose of fertilizer.</li> <li>■ Proper drainage is required to avoid water logging</li> </ul>
		<b>Rice yellow stem borer</b> 	<ul style="list-style-type: none"> <li>■ Cut leaf tip from the seedling.</li> <li>■ Collect and destroy infected parts of the plant.</li> <li>■ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> </ul>
<b>Kharif Maize</b>	<b>Physiological maturity</b>	<b>AIZAWL</b> 	<ul style="list-style-type: none"> <li>■ Grain is not ready for safe storage Needs to be at 13-15% moisture for long-term storage May be advantageous to let crop partially dry in the field</li> <li>■ Frost has no effect on yield at this point. However, lodging from disease, insect damage or can result in physical loss of yield.</li> </ul>
		<b>Rat damage</b> 	<ul style="list-style-type: none"> <li>■ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.</li> <li>■ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields.</li> <li>■ Keep the cobs in slender position from the stem.</li> <li>■ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Pig disease</b> 	<ul style="list-style-type: none"> <li>■ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea.once the symptom are noticed, call veterinarian doctor.</li> </ul>



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		<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval <ul style="list-style-type: none"><li>• FMD vaccine at 16 week and repeat every 6 month.</li></ul>
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"><li>• Black Quarter Vaccine (BQV).<ul style="list-style-type: none"><li>❖ Primary vaccination 6 month or above</li><li>❖ Revaccination annually</li></ul></li></ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"><li>• Maintain light 12-14 hrs in brooder house.</li><li>• The litter should be 7.5- 10 cm deep.</li><li>• Saw dust, paddy husk or ground nut hulls can be used as litter.</li><li>• Add lime with Saw dust, paddy husk or ground nut for maintain moisture.</li></ul>
<b>Poultry</b>	<b>Litter management</b>	<b>AIZAWL</b>	<ul style="list-style-type: none"><li>• <b>Ranikhet Disease-</b> F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li><li>• B complex with antibodies</li></ul>
	<b>Preventive measures</b>	<b>0-3<sup>rd</sup> week</b>	<ul style="list-style-type: none"><li>• <b>Coccidiosis-</b> Amprolium or coccidiostat</li></ul>
		<b>4<sup>th</sup> weeks</b>	<ul style="list-style-type: none"><li>• Calcium tonic fortified with B<sub>12</sub></li></ul>
		<b>4-5<sup>th</sup> Weeks</b>	<ul style="list-style-type: none"><li>• Burn all the dead birds.</li><li>• Furaltadone@ 0.5 g/litre of water for 7 days.</li></ul>
	<b>Bacillary White Diarrhoea</b>	<b>LUM All stage</b>	



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### Expert committee members:

<b>Dr. S.B. Singh</b>	:	Joint Director	<a href="mailto:basantasinghsoibam@rediffmail.com">basantasinghsoibam@rediffmail.com</a>
<b>Dr. Saurav Saha</b>	:	Scientist (Agril. Physics)	<a href="mailto:sauravs.saha@gmail.com">sauravs.saha@gmail.com</a>
<b>Dr. T. Boopathi</b>	:	Scientist (Agril Entomology)	<a href="mailto:boopathiars@gmail.com">boopathiars@gmail.com</a>
<b>Dr. Sudip Kumar Dutta</b>	:	Scientist (Hort.)	<a href="mailto:sudipiari@rediffmail.com">sudipiari@rediffmail.com</a>
<b>Dr. A. Ratankumar Singh</b>	:	Scientist (Plant Pathology)	<a href="mailto:ratanplantpatho@gmail.com">ratanplantpatho@gmail.com</a>
<b>Dr. L. H. Puii</b>	:	Scientist (Vet. Microbiology)	<a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>
<b>Dr. Lungmuana</b>	:	Scientist (Soil Fertility)	<a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>
<b>Dr. M. Thoithoi Devi</b>	:	Scientist (Agronomy)	<a href="mailto:thoigri@gmail.com">thoigri@gmail.com</a>
<b>Mr. Samik Chowdhury</b>	:	Technical Officer	<a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>
<b>Mr. Evans Syiem</b>	:	Meteorological Observer	<a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>
<b>Mr. Vanthawmliana</b>	:	Senior Research Fellow (Mizo language Translator)	<a href="mailto:Tom_tom79@yahoo.in">Tom_tom79@yahoo.in</a>
<b>Mrs. Monika Bora</b>	:	Meteorological Observer (IMD)	<a href="mailto:boramonika@rediffmail.com">boramonika@rediffmail.com</a>

### Collaborating Department:

Name of the KVK	Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
<b>KVK Lunglei</b>	: <b>Dr. Lalmuanzovi</b> Head & Sr. Scientist	<a href="mailto:kvhnahthial@gmail.com">kvhnahthial@gmail.com</a>	9862803750 9436154614
<b>KVK, Kolasib</b>	: <b>Mr. Lalrosamga Khiangte</b> Head & Sr. Scientist	<a href="mailto:kvkkolasib@gmail.com">kvkkolasib@gmail.com</a>	9436152440
<b>KVK, Serchhip</b>	: <b>Mr. K. Laltlanmawia</b> Head & Sr. Scientist	<a href="mailto:kvkserchhip@gmail.com">kvkserchhip@gmail.com</a>	9436146115 9615389293
<b>KVK, Champhai</b>	: <b>Mrs. Lalrinawmi Renthlei</b> Head & Sr. Scientist	<a href="mailto:kvkkhawzawl@gmail.com">kvkkhawzawl@gmail.com</a>	9436159788
<b>KVK, Lawngtlai</b>	: <b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	<a href="mailto:kvklawntlai@gmail.com">kvklawntlai@gmail.com</a>	9436155858
<b>KVK, Saiha</b>	: <b>Dr. Vanlahruaia Hnampe</b> Head & Sr. Scientist	<a href="mailto:kvksaiha@gmail.com">kvksaiha@gmail.com</a>	8974656509
<b>KVK, Mamit</b>	: <b>Dr. Samuel Lalliansanga</b> Head & Sr. Scientist	<a href="mailto:kvkmamit@gmail.com">kvkmamit@gmail.com</a>	9436147625
<b>KVK, Aizawl</b>	: <b>Dr. K. P. Chaudhary</b> Head & Sr. Scientist	<a href="mailto:Kpchy@rediffmail.com">Kpchy@rediffmail.com</a> <a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>	9436351669



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**District:** Saiha

**Period:** 14 – 18 September, 2016

**Bulletin No:** - 636/2016/ Bulletin/Mizo

**Date of issue:** 13<sup>th</sup> September, 2016

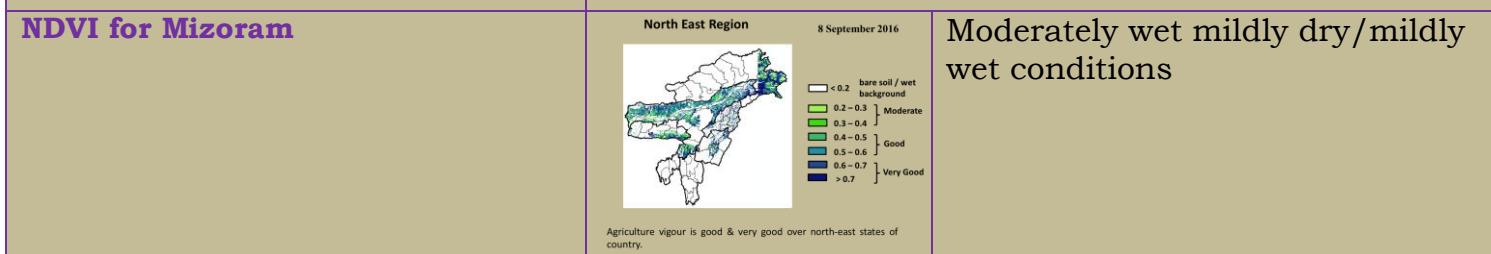
Parameters	14.09.2016	15.09.2016	16.09.2016	17.09.2016	18.09.2016
Rainfall (mm)	5	6	7	4	8
Max Temp (°C)	32	32	32	33	33
Min Temp (°C)	23	23	24	24	24
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	100
Min RH (%)	80	80	81	87	81
Wind Speed (KmpH)	0	0	0	0	2
*Wind Direction	E	E	S-W	E	N-E

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

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

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

<b>Ni thum kalta sik leh sa dinhmun tlangpui</b>	<b>14<sup>th</sup> September- 18<sup>th</sup> September, 2016</b> <b>chhunga sik leh sa dinhmun tur tlangpui</b>	
<b>Maximum Tem. (°C): 18-21°C</b> <b>Minimum Tem. (°C): 15-17°C</b> <b>Maximum RH (%): 96-100%</b> <b>Minimum RH (%): 79-92%</b> <b>Wind Direction: Southwesterly</b> <b>Cloud cover: Mainly cloudy</b> <b>Wind Speed: 3km/hr</b>	Ni 5 lo awm turah hian ruahui tam vak lo a tlak beisei a ni. Khua a lum lai berin 32-33°C a ni ang a. A vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 80-87% ni tur a rin niin. Thli hi darkar khatah 0-2 km vela chakin chhaklam hawi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.	
<b>Rainfall: 95.2 mm</b>	<b>Weekly cumulative rainfall: 30.0mm</b>	





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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>KOLASIB MAMIT AIZAWL CHAMPA SERCHHIP LUNGLEI LAWNGTLAI SAIHA</p>	<ul style="list-style-type: none"> <li>⊕ Heng ser tiak te hi Ni zung hmuh thatna, thili laka him hmunah phun tur a ni.</li> <li>⊕ Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni.</li> <li>⊕ 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.</li> <li>⊕ 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.</li> <li>⊕ 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.</li> </ul>
		Citrus Cancar	<ul style="list-style-type: none"> <li>⊕ 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.</li> <li>⊕ Kung tlemte chauhin he natna an</li> </ul>



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		<p style="color: red; font-weight: bold;">Citrus leafminor and butterfly</p>	<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"> <li>⊕ Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 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).</li> </ul>
<b>Oil Palm</b>	<b>A tet lai</b>		<ul style="list-style-type: none"> <li>⊕ Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni.</li> <li>⊕ Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni.</li> <li>⊕ Oil palm tiak chu 2.5cm vela thuk in phum tur.</li> <li>⊕ Nitin tui pek tur.</li> <li>⊕ A tiak pakhat tan leitha SSP, MOP leh Mg<sub>2</sub>SO<sub>4</sub> cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni.</li> <li>⊕ A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni.</li> <li>⊕ Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.</li> </ul>
	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>⊕ A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni.</li> <li>⊕ Kung khatah 600:200:100 (NPK) hi hmun hniyah thena apply tur a ni.</li> <li>⊕ 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.</li> </ul>



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Balhla	A par lai	KOLASIB	<ul style="list-style-type: none"> <li>Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.</li> </ul>
		MAMIT	<ul style="list-style-type: none"> <li>Balhla kung bul vel</li> <li>tihfai a a hnah ro te thlak bawk tur.</li> <li>Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni.</li> <li>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.</li> </ul>
		BANNAH CHAMPAI	<ul style="list-style-type: none"> <li>Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 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).</li> </ul>
		Banana panama wilt	<ul style="list-style-type: none"> <li>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.</li> </ul>
	A hmin hun	LUNGLEI	<ul style="list-style-type: none"> <li>Balhla hi a par atanga ni 120-140 inkarah a hmin tlangpui.</li> <li>A raha kil a reh hnu, a mam pal hunah seng chauh tur a ni.</li> <li>Balhla bu a puitlin tawh chuan a hnah chung ber a ro tan thin.</li> </ul>
		Banana fruit caterpillar	<ul style="list-style-type: none"> <li>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.</li> </ul>
		Banana thrips	<ul style="list-style-type: none"> <li>A rah hunlaia polythene bag-a a kung tuam hian rannung thenkhak lakah a veng ve a ni.</li> </ul>
Sapthei	Phunsawn hunlai	SAIHA	<ul style="list-style-type: none"> <li>Rah chhuah tha, virus kai lo thlan tur a ni.</li> <li>Phunsawn atana kan lak hian a</li> </ul>



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			<p>kunga chawrno (bud) 3 tal a keng tel tur a ni.</p> <ul style="list-style-type: none"> <li>■ Phun sawn veleh hian maul eh polythene a siam hmun uap tak tak (chamber\0 ah dah tur a ni).</li> <li>■ <b>Grafting (a kung zawm):</b></li> <li>■ Sapthei chhung eng (yellow) hi polythene bag ah an phun a, Rahangala hybrid kung tantawi nen an zawm thin.</li> </ul>
	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>■ A bulhnai vel tihfai that tur.</li> <li>■ Khaw ro lai chuan a zung bulah lei rihvur a, hnimhnah dah bawk tur a ni.</li> <li>■ Zingkar leh tlai lama Ni a hmuh that theihnan Hmarthlang lam hawitir tur a ni.</li> <li>■ A zar no ho a zamna tur siam mumal tur.</li> </ul>
			<ul style="list-style-type: none"> <li>■ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw, acephate 1.0g emaw dimethoate 2ml emaw, tui litre khatah pawlh a, kah tur.</li> </ul>
Lakhuihthei	<b>A seng hunlai</b>		<ul style="list-style-type: none"> <li>■ A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni.</li> <li>■ Local market (khawchhunga hrall nghal tur) atan chuan a hmin tan lek lek ah seng tur.</li> <li>■ Thawnchhuah tur atan erawh chuan a rawng a eng (yellow) hma hretah seng tur a ni.</li> </ul>
			<ul style="list-style-type: none"> <li>■ Sazu bu leh kua vel tihchhiat a, a hmun vel fai taka enkawl tur.</li> <li>■ Sazu chaw vel a awm loh nan hnim vel tihfai that tur.</li> <li>■ Sazu an tam viau chuan sazu tur 2% Zinc phosphide (96% buh nawi, 2% edible oil leh 2%ZnP) hman tur a ni.</li> </ul>
Colocasia	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar tangkai lo ho pahi tur.</li> </ul>



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		<b>Corm borer</b>	<ul style="list-style-type: none"> <li>■ A zung bul rih vur a leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> </ul>
<b>Cucurbitaceous crops</b>	<b>A seng hun</b>	<b>AIZAWL</b>	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni.</li> <li>■ Tuthlawh hmangin hnime thlawn mai tur a ni.</li> <li>■ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni.</li> <li>■ A rah puitling ho chu seng nghal zel tur a ni.</li> </ul>
		<b>Fruit fly</b>	<ul style="list-style-type: none"> <li>■ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.</li> </ul>
<b>Bawrhsaibe</b>	<b>A par hma deuh atang a par thleng</b>	<b>LUNGLEI</b>	<ul style="list-style-type: none"> <li>■ A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni.</li> <li>■ A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni.</li> <li>■ Ruah tui tling a awm loh nan tui luankawr mumal siam tur a ni.</li> <li>■ A rah puitling apiang seng zel tur a ni.</li> </ul>
		<b>Okra leafroller</b>	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
<b>Behlawi</b>	<b>Rah a chhuah tan</b>		<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar</li> </ul>



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## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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	<b>atanga seng hun thleng</b>		<p>tangkai lo ho pah tur.</p> <ul style="list-style-type: none"> <li>■ A zung bul rih vur a leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> <li>■ A rah puitling apiang seng zel tur.</li> </ul>
Bawkbawn	<b>Rah a chhuah tan atanga seng hun thleng</b>		<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar tangkai lo ho pah tur.</li> <li>■ Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnime to tam tur a veng.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, thlai thang a tichak bawk.</li> <li>■ Ram Hactare khata zauah leitha Urea 50kg hi hmum hniah thenin vawihnih phul tur a ni.</li> <li>■ A rah puitling apiang seng zel tur.</li> </ul>
	<b>Shoot and fruit borer (thlai kung leh a rah bawm chi rannung)</b>		<ul style="list-style-type: none"> <li>■ Natna in a tihchhiat tawh thlai peng lakthlak a pah tur.</li> <li>■ 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.</li> </ul>
	<b>Brinjal leaf beetle</b>		<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Kharif rice (Buh fur laia chin chi)	<b>Phun sawn hunlai</b>		<ul style="list-style-type: none"> <li>■ Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur.</li> <li>■ Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur.</li> </ul>



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Kharif rice	<b>A peng insiamtur zawng zawng insiam zawk hnu lawk</b>	KOLASIB	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Pre Kharif Rice	<b>A vui inseam tan lai</b>	MAMIT	<ul style="list-style-type: none"> <li>■ A bul vela hnime leh thlaidang lo to ve palh te pawh thlawn tur.</li> <li>■ Leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luanna mumal tak siam tur.</li> </ul>
		RICE FIELD CHAMPAI	<b>Rice yellow stem borer</b>
Vaimim fur hma a seng chi	<b>A seng hun</b>	SERCHHIP	<ul style="list-style-type: none"> <li>■ A hnah hmawr tan tur.</li> <li>■ A kung hrisel lo lai pah tur</li> <li>■ Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.</li> </ul>
Vaimim fur hma hreta seng chi	<b>A kung puitlin hun</b>	LUNGLEI	<ul style="list-style-type: none"> <li>■ A kung bul vela hnime vel tihfai that tur.</li> <li>■ Leitha nena rihvur tur.</li> <li>■ Leitha vawi hnih pek tur.</li> </ul>
			<b>Maize cob borer (vaimim kawm bawmtu rannung)</b>
Sawhthing leh Aieng	<b>Par a chhuah hma</b>	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> <li>■ Thlai hnah, a tang ro leh hnime te chu pahfai vek tur.</li> <li>■ Lin tirk (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kg a.i ha<sup>-1</sup> Metolachlor (Dual) @1.5-2.0 kg a.i ha<sup>-1</sup>, Pendimethalin (Stomp)</li> </ul>



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			<p>@ 1-1.5kg a.i ha<sup>-1</sup> te hian hnimhnah lian lampang chi a veng a ni.</p>
		<b>Turmeric shoot borer (Aieng kung ei chhetu rannung) KOLASIB</b>	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Kharif pulses (Green gram, Black gram and Rajma)	<b>Par a chhuah atanga rah a chhuah thleng</b>		<ul style="list-style-type: none"> <li>■ A bul vela hnim leh thlaidang lo to ve te that a pail tur.</li> <li>■ A kung bulah rih vur tur.</li> <li>■ Natna kai tawh thlai te lakhawm a halral tur.</li> </ul>
	MAMIT	<b>Aphid and bug</b> AIZAWL CHAMPAI	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Vawk	<b>Kumtluanin</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	<p>1. A natna vei vawk te chu thah a phum tur a ni.</p>
	<b>A puitling hun</b>	<b>Swine fever.</b> SERCHHIP	<p>2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur</p>
Bawng	<b>Kumtluanin</b>	<b>Foot and Mouth Disease (FMD)</b> LUNGLEI	<ul style="list-style-type: none"> <li>• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.</li> </ul>
	<b>A naupan lai</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> <li>■ Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>■ Kumkhat hnu ah vaccine pek leh tur.</li> </ul> </li> </ul>
Ar	<b>Kumtluanin</b>	<b>Ranikhet Disease.</b> LAWNGTLAI SAIHA	<p>1. Ar note an pian hlimin F1 vaccine pek tur a nia an puitlin hunah R<sub>2</sub>B pek leh tur a ni.</p> <p>2. Amprolium emaw coccidiostat pek tur.</p>
		<b>Coccidiosis</b>	



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### Expert committee members:

<b>Dr. S.B. Singh</b>	:	Joint Director	<a href="mailto:basantasinghsoibam@rediffmail.com">basantasinghsoibam@rediffmail.com</a>
<b>Dr. Saurav Saha</b>	:	Scientist (Agril. Physics)	<a href="mailto:sauravs.saha@gmail.com">sauravs.saha@gmail.com</a>
<b>Dr. T. Boopathi</b>	:	Scientist (Agril Entomology)	<a href="mailto:boopathiars@gmail.com">boopathiars@gmail.com</a>
<b>Dr. Sudip Kumar Dutta</b>	:	Scientist (Hort.)	<a href="mailto:sudipiari@rediffmail.com">sudipiari@rediffmail.com</a>
<b>Dr. A. Ratankumar Singh</b>	:	Scientist (Plant Pathology)	<a href="mailto:ratanplantpatho@gmail.com">ratanplantpatho@gmail.com</a>
<b>Dr. L. H. Puii</b>	:	Scientist (Vet. Microbiology)	<a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>
<b>Dr. Lungmuana</b>	:	Scientist (Soil Fertility)	<a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>
<b>Dr Y. Ramakrishna</b>	:	Farm manager (T-6)	<a href="mailto:ramakrishnaiari@rediffmail.com">ramakrishnaiari@rediffmail.com</a>
<b>Mr. Samik Chowdhury</b>	:	Technical Officer	<a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>
<b>Mr. Evans Syiem</b>	:	Meteorological Observer	<a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>
<b>Mr. Vanthawmliana</b>	:	Senior Research Fellow (Mizo language Translator)	<a href="mailto:Tom_tom79@yahoo.in">Tom_tom79@yahoo.in</a>
<b>Mrs. Monika Bora</b>	:	Meteorological Observer	<a href="mailto:boramonika@rediffmail.com">boramonika@rediffmail.com</a>

### Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	<a href="mailto:kvklunglei@gmail.com">kvklunglei@gmail.com</a> <a href="mailto:kvknahthial@gmail.com">kvknahthial@gmail.com</a>
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	<a href="mailto:kvkkolasib@gmail.com">kvkkolasib@gmail.com</a>
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	<a href="mailto:Mmami997@yahoo.com">Mmami997@yahoo.com</a> <a href="mailto:kvksurchhip@gmail.com">kvksurchhip@gmail.com</a>
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	<a href="mailto:pckvkhawzawl@rediffmail.com">pckvkhawzawl@rediffmail.com</a>
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	<a href="mailto:vvl9@rediffmail.com">vvl9@rediffmail.com</a> <a href="mailto:kvklawngtalai@rediffmail.com">kvklawngtalai@rediffmail.com</a>
Ms. C. Racheal	:	PC KVK, Saiha	<a href="mailto:kvksaiha@gmail.com">kvksaiha@gmail.com</a> <a href="mailto:rachoza@gmail.com">rachoza@gmail.com</a>
Mr. Vanlalhrauaia Hnamte	:	PC KVK, Mamit	<a href="mailto:kvkmamit@yahoo.in">kvkmamit@yahoo.in</a>
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	<a href="mailto:Kpchy@rediffmail.com">Kpchy@rediffmail.com</a> <a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>



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Mizoram Centre, Kolasib- 796081, MIZORAM

**(Prepared based on District wise Weather Forecast received from IMD,  
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**District: Serchhip**

**Period: 14 – 18 September, 2016**

**Bulletin No: - 636/2016/ Bulletin/English**

**Date of issue: 13<sup>th</sup> September, 2016**

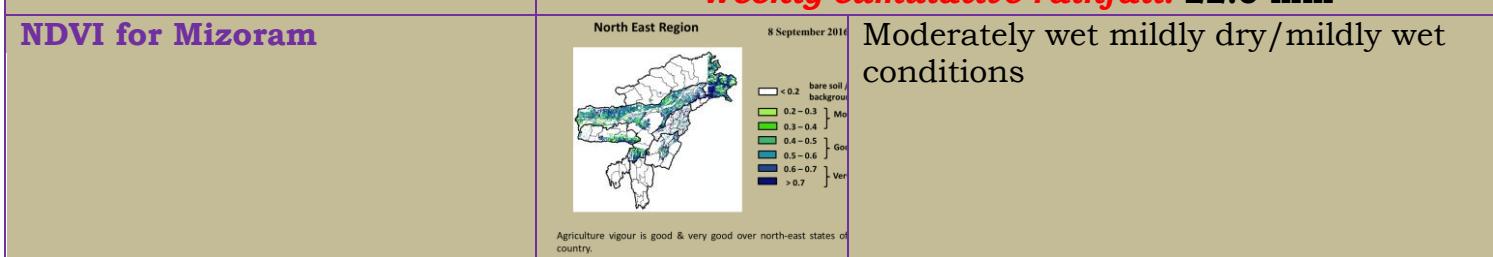
Parameters	14.09.2016	15.09.2016	16.09.2016	17.09.2016	18.09.2016
<b>Rainfall (mm)</b>	5	4	4	5	4
<b>Max Temp (°C)</b>	32	32	32	32	32
<b>Min Temp (°C)</b>	22	22	22	23	23
<b>Cloud Coverage</b>	Partially clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
<b>Max RH (%)</b>	99	99	99	99	99
<b>Min RH (%)</b>	71	71	81	82	81
<b>Wind Speed (KmPH)</b>	2	2	2	2	2
<b>*Wind Direction</b>	S-E	E	S-E	S-E	S-E

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

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

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

Weather summary of the past three days	Weather forecast valid from 14 <sup>th</sup> September, 2016 To 18 <sup>th</sup> September, 2016.
<b>Maximum Tem. (°C): 21-25°C</b> <b>Minimum Tem. (°C): 18-20°C</b> <b>Maximum RH (%): 98-100%</b> <b>Minimum RH (%): 78-94%</b> <b>Wind Direction: Southwesterly</b> <b>Cloud cover: Mainly cloudy</b> <b>Wind Speed: 3km/hr</b>  <b>Rainfall: 100.2 mm</b>	<p>There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 32°C and 22-23°C. Maximum relative humidity is expected in the range of 99% and minimum may from 71-82%. Wind direction would be southeasterly to easterly and southeasterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.</p> <p style="text-align: center;"><b>Weekly cumulative rainfall: 22.0 mm</b></p>





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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
<b>Khasi Mandarin and acid lime</b>	<b>Flowering to fruit formation stage</b>	<p><b>KOLASIB</b> <b>MAMIT</b> <b>AIZAWL</b> <b>SERCHHIP</b></p> <p><b>Fruit fly</b></p>	<ul style="list-style-type: none"> <li>➡ In north-eastern parts of India, Khasi mandarins are very closely spaced (6 m. X 6 m.), accommodating more than 120 plants/ha.</li> <li>➡ Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water for one hectare area).</li> <li>➡ Make a circle near to the plant and apply 25 kg FYM along with 20 g urea and 125 g SSP.</li> <li>➡ Remove all unwanted plants from near the base of the plant.</li> <li>➡ Care should be taken to avoid water stagnation in the bags.</li> </ul>
		<p><b>LUNGLEI</b> <b>LAWNGTLAI</b> <b>SAIHA</b></p> <p><b>Dia back disease</b></p>	<ul style="list-style-type: none"> <li>➡ 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.</li> </ul>
<b>Passion Fruit</b>	<b>Flowering to Fruit formation stage</b>	<p><b>LUNGLEI</b> <b>LAWNGTLAI</b> <b>SAIHA</b></p>	<ul style="list-style-type: none"> <li>➡ Remove all infected plant and burn it.</li> <li>➡ Pruning of effected part spraying with carbendazim/Bordeaux mixture 1.0%</li> <li>➡ Clean near the base of the plant.</li> <li>➡ In dry spell apply mulch with grass.</li> <li>➡ Trellises are in the north-south direction to minimize the shades during early morning and late evening.</li> <li>➡ Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water for one hectare area).</li> <li>➡ Apply 100: 50:100g as NPK per plant.</li> </ul>
		<p><b>LUNGLEI</b> <b>LAWNGTLAI</b> <b>SAIHA</b></p>	<ul style="list-style-type: none"> <li>➡ Collect and burn all infected plant.</li> <li>➡ 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.</li> </ul>



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Banana	Harvesting stage	Map showing districts affected by Banana diseases:	Prevention and control measures
		KOLASIB	<ul style="list-style-type: none"><li>✚ Change of colour from green to yellowish.</li><li>✚ Fingers are about three quarters full i.e. 3/4 of fruit is rounded</li><li>✚ Ridges should still be prominent on the remaining quarter of the finger.</li><li>✚ Harvest bananas when they are swollen and green but before they become ripe (plump and yellow).</li><li>✚ Too early (when the bananas are thin and dark green).</li><li>✚ Too late (when they are thick and turning yellow).</li></ul>
	MAMIT	Banana Rhizome weevil AIZAWL	<ul style="list-style-type: none"><li>✚ 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 1<sup>st</sup> instars predominate which coincides with I Fortnight of July.</li></ul>
		Banana panama wilt SERCHHIP	<ul style="list-style-type: none"><li>✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.</li></ul>
		Banana beetle	<ul style="list-style-type: none"><li>✚ Removal of weeds from basin</li><li>✚ Removal of unwanted sucker</li><li>✚ Application of alphamethrin @ 0.01%.</li></ul>
Pineapple	Harvest stage	LUNGLEI	<ul style="list-style-type: none"><li>✚ A basal golden yellow coloration at the base is the sign of a ripe fruit.</li><li>✚ Fresh fruits destined for the local market are plucked when almost ripe.</li><li>✚ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).</li></ul>
		Rat damage LAWNGTIA SAIHA	<ul style="list-style-type: none"><li>✚ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.</li><li>✚ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields.</li><li>✚ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent</li></ul>



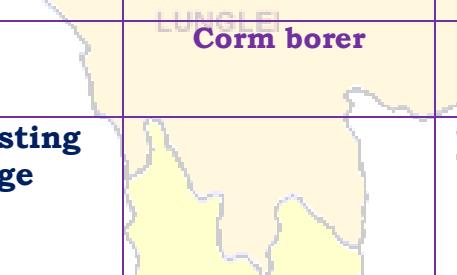
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			infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
<b>Oil plam</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>■ Time from flowering to harvesting of ripe fruit is 5-6 months.</li><li>■ Fruit brunch is tightly wedge in the leaf axil of the plam.</li><li>■ Brunch of a mature plam contains 1,000 to 4,000 fruits, depending on the trees agr and vigor.</li><li>■ Bunch weights at maturity 15-25 kg.</li><li>■ The percentage of fruits per bunch is usually 50-60%.</li><li>■ The egg shaped fruits weight 10-20 g.</li><li>■ The pulp around the nut contains the red palm oil.</li><li>■ The kernel in the nut contains oil very similar to coconut oil, but palm oil and palm kernel oil are chemically different.</li></ul>
<b>Colocasia</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>■ Remove unwanted plant near base of the plant and cut dead branches.</li><li>■ Earthing up soil at base of the plant along with split doses of fertilizer.</li><li>■ Proper drainage is required to avoid water logging.</li><li>■ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.</li></ul>
<b>Cucurbitaceo us crop</b>	<b>Harvesting stage</b>		<ul style="list-style-type: none"><li>■ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.</li><li>■ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application</li><li>■ Weeding can be done by hoeing as and when necessary.</li><li>■ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches.</li><li>■ Harvest all mature fruit.</li></ul>
			<ul style="list-style-type: none"><li>■ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension</li></ul>



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			containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
<b>Okra</b>	<b>Harvesting stage</b>	KOLASIB	<ul style="list-style-type: none"><li>■ Harvest all mature fruit.</li><li>■ Keep over mature fruit for seed production.</li><li>■ Keep dry fruits in sun for drying and store for next year</li></ul>
		Okra leafroller	<ul style="list-style-type: none"><li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
<b>Cowpea</b>	<b>Fruit initiation to harvest</b>	AIZAWL	<ul style="list-style-type: none"><li>■ Remove unwanted plant near base of the plant and cut dead branches.</li><li>■ Earthing up soil at base of the plant along with split doses of fertilizer.</li><li>■ Proper drainage is required to avoid water logging.</li><li>■ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.</li><li>■ Harvest all mature fruit.</li></ul>
<b>Brinjal</b>	<b>Harvesting stage</b>	SERCHHIP	<ul style="list-style-type: none"><li>■ Harvest all mature fruit.</li><li>■ Keep over mature fruit for seed production.</li><li>■ Extract seeds from full ripened or over matured fruit.</li><li>■ Keep extracted for sun dry and keep for next year.</li></ul>
		HUINGLI	<ul style="list-style-type: none"><li>■ Collect and destroy infected parts of the plant.</li><li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
		SAIHA	<ul style="list-style-type: none"><li>■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.</li></ul>
<b>Tomato</b>	<b>Nursery stage</b>	Land preparation	<ul style="list-style-type: none"><li>■ Nursery preparation for tomato.</li><li>■ Raised bed, nursery bed solarisation.</li><li>■ Bed should be 1m width and conventional length.</li><li>■ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li><li>■ Line sowing of seeds (7-10cm)</li></ul>



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		<b>Damping off</b>	<ul style="list-style-type: none"> <li>➡ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>➡ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
<b>Ginger and turmeric</b>	<b>Vegetative stage</b>	 <b>KOLASIB</b> <b>MAMIT</b> <b>AIZAWL</b> <b>SERCHHIP</b> <b>LUNGLEI</b> <b>LAWNGTLAI</b> <b>SAIHA</b>	<ul style="list-style-type: none"> <li>➡ Remove unwanted plant near base of the plant and cut dead branches.</li> <li>➡ 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.</li> <li>➡ Earthing up of soil along with fertilizer mixture.</li> </ul>
		<b>Turmeric shoot borer</b>	<ul style="list-style-type: none"> <li>➡ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> </ul>
<b>Pre kharif Rice</b>	<b>Panicle Emergence stage</b>	 <b>KOLASIB</b> <b>AIZAWL</b> <b>MAMIT</b> <b>SERCHHIP</b> <b>LUNGLEI</b> <b>LAWNGTLAI</b> <b>SAIHA</b>	<ul style="list-style-type: none"> <li>➡ Remove unwanted plant by hand weeding.</li> <li>➡ Apply split dose of fertilizer.</li> <li>➡ Proper drainage is required to avoid water logging</li> </ul>
		<b>Rice yellow stem borer</b>	<ul style="list-style-type: none"> <li>➡ Cut leaf tip from the seedling.</li> <li>➡ Collect and destroy infected parts of the plant.</li> <li>➡ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> </ul>
		<b>Rice leafroller</b>	<ul style="list-style-type: none"> <li>➡ Stop indiscriminate use of fertilizer.</li> <li>➡ Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage and 2 ml/lt of water for heavy damage.</li> </ul>
<b>Kharif Maize</b>	<b>Harvesting stage</b>	 <b>KOLASIB</b> <b>AIZAWL</b> <b>MAMIT</b> <b>SERCHHIP</b> <b>LUNGLEI</b> <b>LAWNGTLAI</b> <b>SAIHA</b>	<ul style="list-style-type: none"> <li>➡ Harvest all mature cobs.</li> <li>➡ Keep all mature cobs for sun dry.</li> <li>➡ After sundry hang all cobs in smoke for reduce maize weevil attack.</li> </ul>
<b>Soybean</b>	<b>Sowing</b>	<b>Zero tillage</b>	<ul style="list-style-type: none"> <li>➡ Clean all debris from the jhum field.</li> <li>➡ Open the furrow with dao or dibbler</li> </ul>



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			<p>or khurpee.</p> <ul style="list-style-type: none"><li>▪ Put recommended fertilizer dose and mix with soil.</li><li>▪ Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.</li></ul>
<b>Kharif pulses (Green gram, Black gram and Rajma)</b>	<b>Harvesting stage</b>	<b>KOLASIB</b>	<ul style="list-style-type: none"><li>▪ Harvest all mature pods.</li><li>▪ Keep all mature pods for sun dry.</li></ul>
		<b>Aphid and bug</b>	<ul style="list-style-type: none"><li>▪ Manually collect and destroy the insect.</li><li>▪ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
<b>Pig</b>	<b>All stages</b>	<b>Pig disease</b>	<ul style="list-style-type: none"><li>▪ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea.once the symptom are noticed, call veterinarian doctor.</li></ul>
		<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	<ol style="list-style-type: none"><li>1. Culling of positive pigs or piglets.</li></ol>
	<b>Adult stage</b>	<b>Swine fever.</b>	<ol style="list-style-type: none"><li>2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval</li></ol>
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"><li>• FMD vaccine at 16 week and repeat every 6 month.</li></ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"><li>• Black Quarter Vaccine (BQV).</li><li>❖ Primary vaccination 6 month or above</li><li>❖ Revaccination annually</li></ul>
<b>Poultry</b>	<b>Litter management</b>	<b>LAWNGTLAI SAIHA</b>	<ul style="list-style-type: none"><li>▪ Maintain light 12-14 hrs in brooder house.</li><li>▪ The litter should be 7.5- 10 cm deep.</li><li>▪ Saw dust, paddy husk or ground nut hulls can be used as litter.</li><li>▪ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.</li></ul>



# GRAMIN KRISHI MAUSAM SEWA

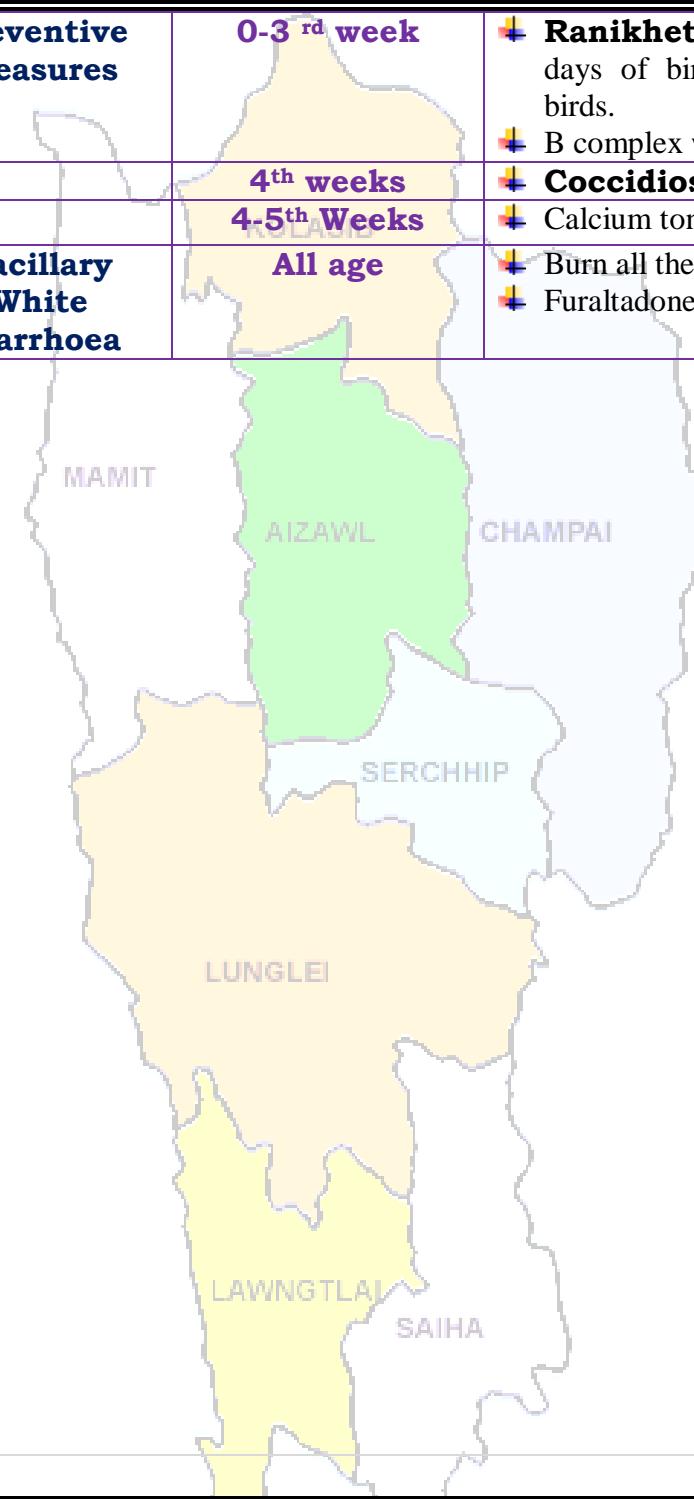
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	<b>Preventive measures</b>	<b>0-3<sup>rd</sup> week</b>	<ul style="list-style-type: none"><li>✚ <b>Ranikhet Disease-</b> F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li><li>✚ B complex with antibodies</li></ul>
		<b>4<sup>th</sup> weeks</b>	<ul style="list-style-type: none"><li>✚ <b>Coccidiosis-</b> Amprolium or coccidiostat</li><li>✚ Calcium tonic fortified with B<sub>12</sub></li></ul>
		<b>4-5<sup>th</sup> Weeks</b>	<ul style="list-style-type: none"><li>✚ Burn all the dead birds.</li><li>✚ Furaltadone@ 0.5 g/litre of water for 7 days.</li></ul>
	<b>Bacillary White Diarrhoea</b>	<b>All age</b>	





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### Expert committee members:

<b>Dr. S.B. Singh</b>	:	Joint Director	<a href="mailto:basantasinghsoibam@rediffmail.com">basantasinghsoibam@rediffmail.com</a>
<b>Dr. Saurav Saha</b>	:	Scientist (Agril. Physics)	<a href="mailto:sauravs.saha@gmail.com">sauravs.saha@gmail.com</a>
<b>Dr. T. Boopathi</b>	:	Scientist (Agril Entomology)	<a href="mailto:boopathiars@gmail.com">boopathiars@gmail.com</a>
<b>Dr. Sudip Kumar Dutta</b>	:	Scientist (Hort.)	<a href="mailto:sudipiari@rediffmail.com">sudipiari@rediffmail.com</a>
<b>Dr. A. Ratankumar Singh</b>	:	Scientist (Plant Pathology)	<a href="mailto:ratanplantpatho@gmail.com">ratanplantpatho@gmail.com</a>
<b>Dr. L. H. Puii</b>	:	Scientist (Vet. Microbiology)	<a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>
<b>Dr. Lungmuana</b>	:	Scientist (Soil Fertility)	<a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>
<b>Dr. M. Thoithoi Devi</b>	:	Scientist (Agronomy)	<a href="mailto:thoigri@gmail.com">thoigri@gmail.com</a>
<b>Mr. Samik Chowdhury</b>	:	Technical Officer	<a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>
<b>Mr. Evans Syiem</b>	:	Meteorological Observer	<a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>
<b>Mr. Vanthawmliana</b>	:	Senior Research Fellow (Mizo language Translator)	<a href="mailto:Tom_tom79@yahoo.in">Tom_tom79@yahoo.in</a>
<b>Mrs. Monika Bora</b>	:	Meteorological Observer (IMD)	<a href="mailto:boramonika@rediffmail.com">boramonika@rediffmail.com</a>

### Collaborating Department:

Name of the KVK	Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
<b>KVK Lunglei</b>	: <b>Dr. Lalmuanzovi</b> Head & Sr. Scientist	<a href="mailto:kvhnahthial@gmail.com">kvhnahthial@gmail.com</a>	9862803750 9436154614
<b>KVK, Kolasib</b>	: <b>Mr. Lalrosamga Khiangte</b> Head & Sr. Scientist	<a href="mailto:kvkkolasib@gmail.com">kvkkolasib@gmail.com</a>	9436152440
<b>KVK, Serchhip</b>	: <b>Mr. K. Laltlanmawia</b> Head & Sr. Scientist	<a href="mailto:kvkserchhip@gmail.com">kvkserchhip@gmail.com</a>	9436146115 9615389293
<b>KVK, Champhai</b>	: <b>Mrs. Lalrinawmi Renthlei</b> Head & Sr. Scientist	<a href="mailto:kvkkhawzawl@gmail.com">kvkkhawzawl@gmail.com</a>	9436159788
<b>KVK, Lawngtlai</b>	: <b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	<a href="mailto:kvklawntlai@gmail.com">kvklawntlai@gmail.com</a>	9436155858
<b>KVK, Saiha</b>	: <b>Dr. Vanlahruaia Hnampe</b> Head & Sr. Scientist	<a href="mailto:kvksaiha@gmail.com">kvksaiha@gmail.com</a>	8974656509
<b>KVK, Mamit</b>	: <b>Dr. Samuel Lalliansanga</b> Head & Sr. Scientist	<a href="mailto:kvkmamit@gmail.com">kvkmamit@gmail.com</a>	9436147625
<b>KVK, Aizawl</b>	: <b>Dr. K. P. Chaudhary</b> Head & Sr. Scientist	<a href="mailto:kpchy@rediffmail.com">kpchy@rediffmail.com</a> <a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>	9436351669



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**District: Serchhip**

**Period: 14 – 18 September, 2016**

**Bulletin No: - 636/2016/ Bulletin/Mizo**

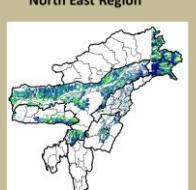
**Date of issue: 13<sup>th</sup> September, 2016**

Parameters	14.09.2016	15.09.2016	16.09.2016	17.09.2016	18.09.2016
Rainfall (mm)	5	4	4	5	4
Max Temp (°C)	32	32	32	32	32
Min Temp (°C)	22	22	22	23	23
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	99	99
Min RH (%)	71	71	81	82	81
Wind Speed (KmPH)	2	2	2	2	2
*Wind Direction	S-E	E	S-E	S-E	S-E
Northerly- <b>N</b> , North-Easterly- <b>N-E</b> , Easterly- <b>E</b> , South-Easterly- <b>S-E</b> , Southerly- <b>S</b> , South-Westerly- <b>S-W</b> , Westerly- <b>W</b> , North-westerly- <b>N-W</b> .					

**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)

<b>Ni thum kalta sik leh sa dinhmun tlangpui</b>	<b>14<sup>th</sup> September– 18<sup>th</sup> September, 2016</b> <b>chhunga sik leh sa dinhmun tur tlangpui</b>
<b>Maximum Tem. (°C): 21-25°C</b> <b>Minimum Tem. (°C): 18-20°C</b> <b>Maximum RH (%): 98-100%</b> <b>Minimum RH (%): 78-94%</b> <b>Wind Direction: Southwesterly</b> <b>Cloud cover: Mainly cloudy</b> <b>Wind Speed: 3km/hr</b>  <b>Rainfall: 100.2 mm</b>	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 22-23°C ni tura beisei a ni. RH san lai berin 99% leh a hniam lai berin 77-82% 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.  <b>Weekly cumulative rainfall: 22.0mm</b>

<b>NDVI for Mizoram</b>	 North East Region 8 September 2016 Agriculture vigour is good & very good over north-east states of country.	Moderately wet mildly dry/mildly wet conditions
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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Phun sawn (transplant) hun	<p>KOLASIB MAMIT AIZAWL CHAMPA SERCHHIP LUNGLEI CITRUS CANCAR LAWNGTLAI SAIHA</p>	<ul style="list-style-type: none"> <li>⊕ Heng ser tiak te hi Ni zung hmuh thatna, thili laka him hmunah phun tur a ni.</li> <li>⊕ Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni.</li> <li>⊕ 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.</li> <li>⊕ 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.</li> <li>⊕ 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.</li> </ul>
		Citrus Cancar	<ul style="list-style-type: none"> <li>⊕ 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.</li> <li>⊕ Kung tlemte chauhin he natna an</li> </ul>



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		<p><b>Citrus leafminor and butterfly</b></p>	<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"> <li>▪ 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).</li> </ul>
<b>Oil Palm</b>	<b>A tet lai</b>		<ul style="list-style-type: none"> <li>▪ Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni.</li> <li>▪ Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni.</li> <li>▪ Oil palm tiak chu 2.5cm vela thuk in phum tur.</li> <li>▪ Nitin tui pek tur.</li> <li>▪ A tiak pakhat tan leitha SSP, MOP leh Mg<sub>2</sub>SO<sub>4</sub> cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni.</li> <li>▪ A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni.</li> <li>▪ Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.</li> </ul>
	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>▪ A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni.</li> <li>▪ Kung khatah 600:200:100 (NPK) hi hmun hniyah thena apply tur a ni.</li> <li>▪ 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.</li> </ul>



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Balhla	A par lai	KOLASIB	<ul style="list-style-type: none"> <li>Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.</li> </ul>
		MAMIT	<ul style="list-style-type: none"> <li>Balhla kung bul vel</li> <li>tihfai a a hnah ro te thlak bawk tur.</li> <li>Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni.</li> <li>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.</li> </ul>
		BANNAH CHAMPAI	<ul style="list-style-type: none"> <li>Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 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).</li> </ul>
		Banana panama wilt	<ul style="list-style-type: none"> <li>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.</li> </ul>
	A hmin hun	LUNGLEI	<ul style="list-style-type: none"> <li>Balhla hi a par atanga ni 120-140 inkarah a hmin tlangpui.</li> <li>A raha kil a reh hnu, a mam pal hunah seng chauh tur a ni.</li> <li>Balhla bu a puitlin tawh chuan a hnah chung ber a ro tan thin.</li> </ul>
		Banana fruit caterpillar	<ul style="list-style-type: none"> <li>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.</li> </ul>
		Banana thrips	<ul style="list-style-type: none"> <li>A rah hunlaia polythene bag-a a kung tuam hian rannung thenkhak lakah a veng ve a ni.</li> </ul>
Sapthei	Phunsawn hunlai	SAIHA	<ul style="list-style-type: none"> <li>Rah chhuah tha, virus kai lo thlan tur a ni.</li> <li>Phunsawn atana kan lak hian a</li> </ul>



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			<p>kunga chawrno (bud) 3 tal a keng tel tur a ni.</p> <ul style="list-style-type: none"> <li>■ Phun sawn veleh hian maul eh polythene a siam hmun uap tak tak (chamber\0 ah dah tur a ni).</li> <li>■ <b>Grafting (a kung zawm):</b></li> <li>■ Sapthei chhung eng (yellow) hi polythene bag ah an phun a, Rahangala hybrid kung tantawi nen an zawm thin.</li> </ul> <p>A bulhnai vel tihfai that tur.</p> <p>Khaw ro lai chuan a zung bulah lei rihvur a, hnimhnah dah bawk tur a ni.</p> <p>Zingkar leh tlai lama Ni a hmuh that theihnan Hmarthlang lam hawitir tur a ni.</p> <p>A zar no ho a zamna tur siam mumal tur.</p> <p>Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw, acephate 1.0g emaw dimethoate 2ml emaw, tui litre khatah pawlh a, kah tur.</p> <p>A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni.</p> <p>Local market (khawchhunga hrakh nghan tur) atan chuan a hmin tan lek lek ah seng tur.</p> <p>Thawnchhuah tur atan erawh chuan a rawng a eng (yellow) hma hretah seng tur a ni.</p> <p>Sazu bu leh kua vel tihchhiat a, a hmun vel fai taka enkawl tur.</p> <p>Sazu chaw vel a awm loh nan hnim vel tihfai that tur.</p> <p>Sazu an tam viau chuan sazu tur 2% Zinc phosphide (96% buh nawi, 2% edible oil leh 2%ZnP) hman tur a ni.</p> <p>A bul vel tihfai that a, a zar tangkai lo ho pahi tur.</p>
	<b>Par a chhuah hma</b>		<p>Aphid</p>
Lakhuihthei	<b>A seng hunlai</b>		<p>Rat damage (Sazu in a tihchhiat)</p>
Colocasia	<b>Par a chhuah hma</b>		



# 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,  
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			<ul style="list-style-type: none"> <li>■ A zung bul rih vur a leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> <li>■ 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.</li> </ul>
Cucurbitaceous crops	<b>A seng hun</b>		<ul style="list-style-type: none"> <li>■ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni.</li> <li>■ Tuthlawh hmangin hnime thlawn mai tur a ni.</li> <li>■ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni.</li> <li>■ A rah puitling ho chu seng nghal zel tur a ni.</li> </ul>
Bawrhsaibe	<b>A par hma deuh atang a par thleng</b>		<ul style="list-style-type: none"> <li>■ A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni.</li> <li>■ A kung bul rihvur tur a ni a, leitha vawi hnime pek bawk tur a ni.</li> <li>■ Ruahtui tling a awm loh nan tui luankawr mumal siam tur a ni.</li> <li>■ A rah puitling apiang seng zel tur a ni.</li> </ul>
Behlawi	<b>Rah a chhuah tan</b>		<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ A bul vel tihfai that a, a zar</li> </ul>



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	<b>atanga seng hun thleng</b>		<p>tangkai lo ho pah tur.</p> <ul style="list-style-type: none"> <li>■ A zung bul rih vur a leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> <li>■ A rah puitling apiang seng zel tur.</li> </ul>
Bawkbawn	<b>Rah a chhuah tan atanga seng hun thleng</b>		<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar tangkai lo ho pah tur.</li> <li>■ Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnime to tam tur a veng.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, thlai thang a tichak bawk.</li> <li>■ Ram Hactare khata zauah leitha Urea 50kg hi hmum hniah thenin vawihnih phul tur a ni.</li> <li>■ A rah puitling apiang seng zel tur.</li> </ul>
	<b>Shoot and fruit borer (thlai kung leh a rah bawm chi rannung)</b>		<ul style="list-style-type: none"> <li>■ Natna in a tihchhiat tawh thlai peng lakthlak a pah tur.</li> <li>■ 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.</li> </ul>
	<b>Brinjal leaf beetle</b>		<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Kharif rice (Buh fur laia chin chi)	<b>Phun sawn hunlai</b>		<ul style="list-style-type: none"> <li>■ Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur.</li> <li>■ Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur.</li> </ul>



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Kharif rice	<b>A peng insiamtur zawng zawng insiam zawk hnu lawnk</b>	KOLASIB	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Pre Kharif Rice	<b>A vui inseam tan lai</b>	MAMIT	<ul style="list-style-type: none"> <li>■ A bul vela hnime leh thlaidang lo to ve palh te pawh thlawn tur.</li> <li>■ Leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luanna mumal tak siam tur.</li> </ul>
		RICE FIELD CHAMPAI	<b>Rice yellow stem borer</b>
Vaimim fur hma a seng chi	<b>A seng hun</b>	SERCHHIP	<ul style="list-style-type: none"> <li>■ A hnah hmawr tan tur.</li> <li>■ A kung hrisel lo lai pah tur</li> <li>■ Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.</li> </ul>
Vaimim fur hma hreta seng chi	<b>A kung puitlin hun</b>	LUNGLEI	<ul style="list-style-type: none"> <li>■ A kung bul vela hnime vel tihfai that tur.</li> <li>■ Leitha nena rihvur tur.</li> <li>■ Leitha vawi hnih pek tur.</li> </ul>
			<b>Maize cob borer (vaimim kawm bawmtu rannung)</b>
Sawhthing leh Aieng	<b>Par a chhuah hma</b>	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> <li>■ Thlai hnah, a tang ro leh hnime te chu pahfai vek tur.</li> <li>■ Lin tirk (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kg a.i ha<sup>-1</sup> Metolachlor (Dual) @1.5-2.0 kg a.i ha<sup>-1</sup>, Pendimethalin (Stomp)</li> </ul>



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			<p>@ 1-1.5kg a.i ha<sup>-1</sup> te hian hnimhnah lian lampang chi a veng a ni.</p>
		<b>Turmeric shoot borer (Aieng kung ei chhetu rannung) KOLASIB</b>	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Kharif pulses (Green gram, Black gram and Rajma)	<b>Par a chhuah atanga rah a chhuah thleng</b>		<ul style="list-style-type: none"> <li>■ A bul vela hnim leh thlaidang lo to ve te that a pail tur.</li> <li>■ A kung bulah rih vur tur.</li> <li>■ Natna kai tawh thlai te lakhawm a halral tur.</li> </ul>
	MAMIT	<b>Aphid and bug</b> AIZAWL CHAMPAI	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Vawk	<b>Kumtluanin</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	<p>1. A natna vei vawk te chu thah a phum tur a ni.</p>
	<b>A puitling hun</b>	<b>Swine fever.</b> SERCHHIP	<p>2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur</p>
Bawng	<b>Kumtluanin</b>	<b>Foot and Mouth Disease (FMD)</b> LUNGLEI	<ul style="list-style-type: none"> <li>• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.</li> </ul>
	<b>A naupan lai</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> <li>■ Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>■ Kumkhat hnu ah vaccine pek leh tur.</li> </ul> </li> </ul>
Ar	<b>Kumtluanin</b>	<b>Ranikhet Disease.</b> LAWNGTLAI SAIHA	<p>1. Ar note an pian hlimin F1 vaccine pek tur a nia an puitlin hunah R<sub>2</sub>B pek leh tur a ni.</p> <p>2. Amprolium emaw coccidiostat pek tur.</p>
		<b>Coccidiosis</b>	



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### Expert committee members:

<b>Dr. S.B. Singh</b>	:	Joint Director	<a href="mailto:basantasinghsoibam@rediffmail.com">basantasinghsoibam@rediffmail.com</a>
<b>Dr. Saurav Saha</b>	:	Scientist (Agril. Physics)	<a href="mailto:sauravs.saha@gmail.com">sauravs.saha@gmail.com</a>
<b>Dr. T. Boopathi</b>	:	Scientist (Agril Entomology)	<a href="mailto:boopathiars@gmail.com">boopathiars@gmail.com</a>
<b>Dr. Sudip Kumar Dutta</b>	:	Scientist (Hort.)	<a href="mailto:sudipiari@rediffmail.com">sudipiari@rediffmail.com</a>
<b>Dr. A. Ratankumar Singh</b>	:	Scientist (Plant Pathology)	<a href="mailto:ratanplantpatho@gmail.com">ratanplantpatho@gmail.com</a>
<b>Dr. L. H. Puii</b>	:	Scientist (Vet. Microbiology)	<a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>
<b>Dr. Lungmuana</b>	:	Scientist (Soil Fertility)	<a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>
<b>Dr Y. Ramakrishna</b>	:	Farm manager (T-6)	<a href="mailto:ramakrishnaiari@rediffmail.com">ramakrishnaiari@rediffmail.com</a>
<b>Mr. Samik Chowdhury</b>	:	Technical Officer	<a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>
<b>Mr. Evans Syiem</b>	:	Meteorological Observer	<a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>
<b>Mr. Vanthawmliana</b>	:	Senior Research Fellow (Mizo language Translator)	<a href="mailto:Tom_tom79@yahoo.in">Tom_tom79@yahoo.in</a>
<b>Mrs. Monika Bora</b>	:	Meteorological Observer	<a href="mailto:boramonika@rediffmail.com">boramonika@rediffmail.com</a>

### Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	<a href="mailto:kvklunglei@gmail.com">kvklunglei@gmail.com</a> <a href="mailto:kvknahthial@gmail.com">kvknahthial@gmail.com</a>
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	<a href="mailto:kvkkolasib@gmail.com">kvkkolasib@gmail.com</a>
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	<a href="mailto:Mmami997@yahoo.com">Mmami997@yahoo.com</a> <a href="mailto:kvksurchhip@gmail.com">kvksurchhip@gmail.com</a>
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	<a href="mailto:pckvkhawzawl@rediffmail.com">pckvkhawzawl@rediffmail.com</a>
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	<a href="mailto:vvl9@rediffmail.com">vvl9@rediffmail.com</a> <a href="mailto:kvklawngtalai@rediffmail.com">kvklawngtalai@rediffmail.com</a>
Ms. C. Racheal	:	PC KVK, Saiha	<a href="mailto:kvksaiha@gmail.com">kvksaiha@gmail.com</a> <a href="mailto:rachoza@gmail.com">rachoza@gmail.com</a>
Mr. Vanlalhrauaia Hnamte	:	PC KVK, Mamit	<a href="mailto:kvkmamit@yahoo.in">kvkmamit@yahoo.in</a>
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	<a href="mailto:Kpchy@rediffmail.com">Kpchy@rediffmail.com</a> <a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>



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Mizoram Centre, Kolasib- 796081, MIZORAM

**(Prepared based on District wise Weather Forecast received from IMD,  
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**District: Aizawl**

**Period: 14 – 18 September, 2016**

**Bulletin No: - 636/2016/ Bulletin/English**

**Date of issue: 13<sup>th</sup> September, 2016**

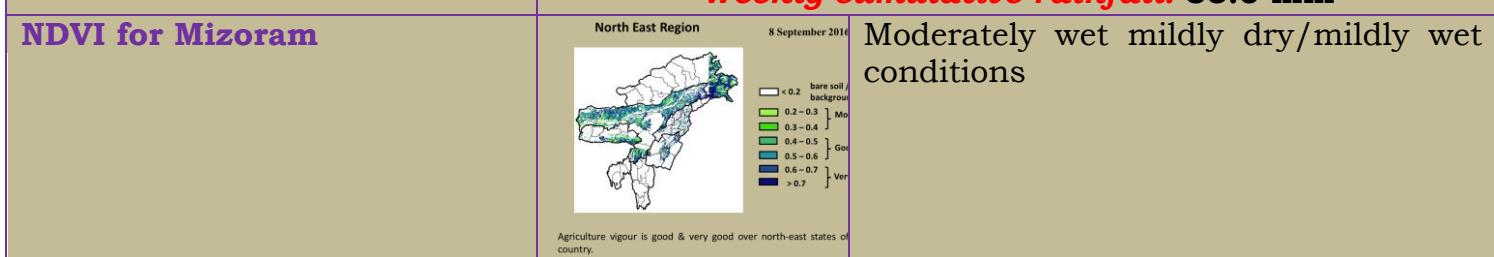
Parameters	14.09.2016	15.09.2016	16.09.2016	17.09.2016	18.09.2016
<b>Rainfall (mm)</b>	3	5	11	8	8
<b>Max Temp (°C)</b>	33	33	33	33	34
<b>Min Temp (°C)</b>	22	23	23	23	23
<b>Cloud Coverage</b>	Mainly cloudy				
<b>Max RH (%)</b>	98	99	100	99	100
<b>Min RH (%)</b>	79	67	79	88	67
<b>Wind Speed (KmpH)</b>	2	2	2	2	2
<b>*Wind Direction</b>	S-E	S-E	S-E	E	E

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

**STATUS OF MONSOON- 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 14 <sup>th</sup> September, 2016 To 18 <sup>th</sup> September, 2016.
<b>Maximum Tem. (°C):22-25°C</b> <b>Minimum Tem. (°C): 19-21°C</b> <b>Maximum RH (%):98-99%</b> <b>Minimum RH (%):79-94%</b> <b>Wind Direction: southeasterly</b> <b>Cloud cover: Mainly cloudy</b> <b>Wind speed: 3 km/hr</b>  <b>Rainfall: 89.3 mm</b>	<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 33-34°C and 22-23°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 67-88%. Wind direction would be southeasterly and easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.</p> <p style="text-align: center;"><b>Weekly cumulative rainfall: 35.0 mm</b></p>





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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
<b>Khasi Mandarin and acid lime</b>	<b>Flowering to fruit formation stage</b>	 KOLASIB AIZAWL MAMIT SERCHHIP Fruit fly	<ul style="list-style-type: none"><li>➡ In north-eastern parts of India, Khasi mandarins are very closely spaced (6 m. X 6 m.), accommodating more than 120 plants/ha.</li><li>➡ Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water for one hectare area).</li><li>➡ Make a circle near to the plant and apply 25 kg FYM along with 20 g urea and 125 g SSP.</li><li>➡ Remove all unwanted plants from near the base of the plant.</li><li>➡ Care should be taken to avoid water stagnation in the bags.</li></ul>
		 LUNGLEI Fruit fly LAWNGTLAI SAIHA	<ul style="list-style-type: none"><li>➡ 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.</li></ul>
		 Dia back disease	<ul style="list-style-type: none"><li>➡ Remove all infected plant and burn it.</li><li>➡ Pruning of effected part spraying with carbendazim/Bordeaux mixture 1.0%</li></ul>
<b>Passion Fruit</b>	<b>Flowering to Fruit formation stage</b>	 LUNGLEI Fruit fly LAWNGTLAI SAIHA	<ul style="list-style-type: none"><li>➡ Clean near the base of the plant.</li><li>➡ In dry spell apply mulch with grass.</li><li>➡ Trellises are in the north-south direction to minimize the shades during early morning and late evening.</li><li>➡ Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water for one hectare area).</li><li>➡ Apply 100: 50:100g as NPK per plant.</li></ul>
		 Fruit fly	<ul style="list-style-type: none"><li>➡ Collect and burn all infected plant.</li><li>➡ 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.</li></ul>



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Banana	Harvesting stage	Map showing districts: Kolasib, Mamit, Aizawl, Serchhip, Lunglei, Lawngtlai, Saitia.	Pre-harvesting tips for banana:
		KOLASIB	<ul style="list-style-type: none"><li>✚ Change of colour from green to yellowish.</li><li>✚ Fingers are about three quarters full i.e. 3/4 of fruit is rounded</li><li>✚ Ridges should still be prominent on the remaining quarter of the finger.</li><li>✚ Harvest bananas when they are swollen and green but before they become ripe (plump and yellow).</li><li>✚ Too early (when the bananas are thin and dark green).</li><li>✚ Too late (when they are thick and turning yellow).</li></ul>
	MAMIT	Banana Rhizome weevil AIZAWL	<ul style="list-style-type: none"><li>✚ 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 1<sup>st</sup> instars predominate which coincides with I Fortnight of July.</li></ul>
		Banana panama wilt SERCHHIP	<ul style="list-style-type: none"><li>✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.</li></ul>
		Banana beetle LUNGLEI	<ul style="list-style-type: none"><li>✚ Removal of weeds from basin</li><li>✚ Removal of unwanted sucker</li><li>✚ Application of alphamethrin @ 0.01%.</li></ul>
Pineapple	Harvest stage	LUNGLEI	<ul style="list-style-type: none"><li>✚ A basal golden yellow coloration at the base is the sign of a ripe fruit.</li><li>✚ Fresh fruits destined for the local market are plucked when almost ripe.</li><li>✚ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).</li></ul>
		Rat damage LAWNGTLAI SAIHA	<ul style="list-style-type: none"><li>✚ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.</li><li>✚ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields.</li><li>✚ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent</li></ul>



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			infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
<b>Oil plam</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>■ Time from flowering to harvesting of ripe fruit is 5-6 months.</li><li>■ Fruit brunch is tightly wedge in the leaf axil of the plam.</li><li>■ Brunch of a mature plam contains 1,000 to 4,000 fruits, depending on the trees agr and vigor.</li><li>■ Bunch weights at maturity 15-25 kg.</li><li>■ The percentage of fruits per bunch is usually 50-60%.</li><li>■ The egg shaped fruits weight 10-20 g.</li><li>■ The pulp around the nut contains the red palm oil.</li><li>■ The kernel in the nut contains oil very similar to coconut oil, but palm oil and palm kernel oil are chemically different.</li></ul>
<b>Colocasia</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>■ Remove unwanted plant near base of the plant and cut dead branches.</li><li>■ Earthing up soil at base of the plant along with split doses of fertilizer.</li><li>■ Proper drainage is required to avoid water logging.</li><li>■ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.</li></ul>
<b>Cucurbitaceo us crop</b>	<b>Harvesting stage</b>		<ul style="list-style-type: none"><li>■ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.</li><li>■ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application</li><li>■ Weeding can be done by hoeing as and when necessary.</li><li>■ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches.</li><li>■ Harvest all mature fruit.</li><li>■ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension</li></ul>



# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
<b>Okra</b>	<b>Harvesting stage</b>	KOLASIB	<ul style="list-style-type: none"><li>■ Harvest all mature fruit.</li><li>■ Keep over mature fruit for seed production.</li><li>■ Keep dry fruits in sun for drying and store for next year</li></ul>
		Okra leafroller	<ul style="list-style-type: none"><li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
<b>Cowpea</b>	<b>Fruit initiation to harvest</b>	AIZAWL	<ul style="list-style-type: none"><li>■ Remove unwanted plant near base of the plant and cut dead branches.</li><li>■ Earthing up soil at base of the plant along with split doses of fertilizer.</li><li>■ Proper drainage is required to avoid water logging.</li><li>■ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.</li><li>■ Harvest all mature fruit.</li></ul>
<b>Brinjal</b>	<b>Harvesting stage</b>	SERCHHIP	<ul style="list-style-type: none"><li>■ Harvest all mature fruit.</li><li>■ Keep over mature fruit for seed production.</li><li>■ Extract seeds from full ripened or over matured fruit.</li><li>■ Keep extracted for sun dry and keep for next year.</li></ul>
		HUINGLI	<ul style="list-style-type: none"><li>■ Collect and destroy infected parts of the plant.</li><li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
		Brinjal leaf beetle	<ul style="list-style-type: none"><li>■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.</li></ul>
<b>Tomato</b>	<b>Nursery stage</b>	Land preparation	<ul style="list-style-type: none"><li>■ Nursery preparation for tomato.</li><li>■ Raised bed, nursery bed solarisation.</li><li>■ Bed should be 1m width and conventional length.</li><li>■ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li><li>■ Line sowing of seeds (7-10cm)</li></ul>



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		Damping off	<ul style="list-style-type: none"><li>■ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li><li>■ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li></ul>
Ginger and turmeric	Vegetative stage	KOLASIB MAMIT AIZAWL	<ul style="list-style-type: none"><li>■ Remove unwanted plant near base of the plant and cut dead branches.</li><li>■ 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.</li><li>■ Earthing up of soil along with fertilizer mixture.</li></ul>
		Turmeric shoot borer	<ul style="list-style-type: none"><li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
Pre kharif Rice	Panicle Emergence stage	SERCHHIP LUNGLOI	<ul style="list-style-type: none"><li>■ Remove unwanted plant by hand weeding.</li><li>■ Apply split dose of fertilizer.</li><li>■ Proper drainage is required to avoid water logging</li></ul>
		Rice yellow stem borer LUNGLOI	<ul style="list-style-type: none"><li>■ Cut leaf tip from the seedling.</li><li>■ Collect and destroy infected parts of the plant.</li><li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
		Rice leafroller LAWNGTIA SAIHA	<ul style="list-style-type: none"><li>■ Stop indiscriminate use of fertilizer.</li><li>■ Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage and 2 ml/lt of water for heavy damage.</li></ul>
Kharif Maize	Harvesting stage	LAWNGTIA SAIHA	<ul style="list-style-type: none"><li>■ Harvest all mature cobs.</li><li>■ Keep all mature cobs for sun dry.</li><li>■ After sundry hang all cobs in smoke for reduce maize weevil attack.</li></ul>
Soybean	Sowing	Zero tillage	<ul style="list-style-type: none"><li>■ Clean all debris from the jhum field.</li><li>■ Open the furrow with dao or dibbler</li></ul>



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			<p>or khurpee.</p> <ul style="list-style-type: none"><li>■ Put recommended fertilizer dose and mix with soil.</li><li>■ Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.</li></ul>
<b>Kharif pulses (Green gram, Black gram and Rajma)</b>	<b>Harvesting stage</b>	<b>KOLASIB</b>	<ul style="list-style-type: none"><li>■ Harvest all mature pods.</li><li>■ Keep all mature pods for sun dry.</li></ul>
		<b>Aphid and bug</b>	<ul style="list-style-type: none"><li>■ Manually collect and destroy the insect.</li><li>■ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
<b>Pig</b>	<b>All stages</b>	<b>Pig disease</b>	<ul style="list-style-type: none"><li>■ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea.once the symptom are noticed, call veterinarian doctor.</li></ul>
		<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	<ol style="list-style-type: none"><li>1. Culling of positive pigs or piglets.</li></ol>
	<b>Adult stage</b>	<b>Swine fever.</b>	<ol style="list-style-type: none"><li>2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval</li></ol>
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"><li>• FMD vaccine at 16 week and repeat every 6 month.</li></ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"><li>• Black Quarter Vaccine (BQV).</li><li>❖ Primary vaccination 6 month or above</li><li>❖ Revaccination annually</li></ul>
<b>Poultry</b>	<b>Litter management</b>	<b>LAWNGTLAI SAIHA</b>	<ul style="list-style-type: none"><li>■ Maintain light 12-14 hrs in brooder house.</li><li>■ The litter should be 7.5- 10 cm deep.</li><li>■ Saw dust, paddy husk or ground nut hulls can be used as litter.</li><li>■ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.</li></ul>



# GRAMIN KRISHI MAUSAM SEWA

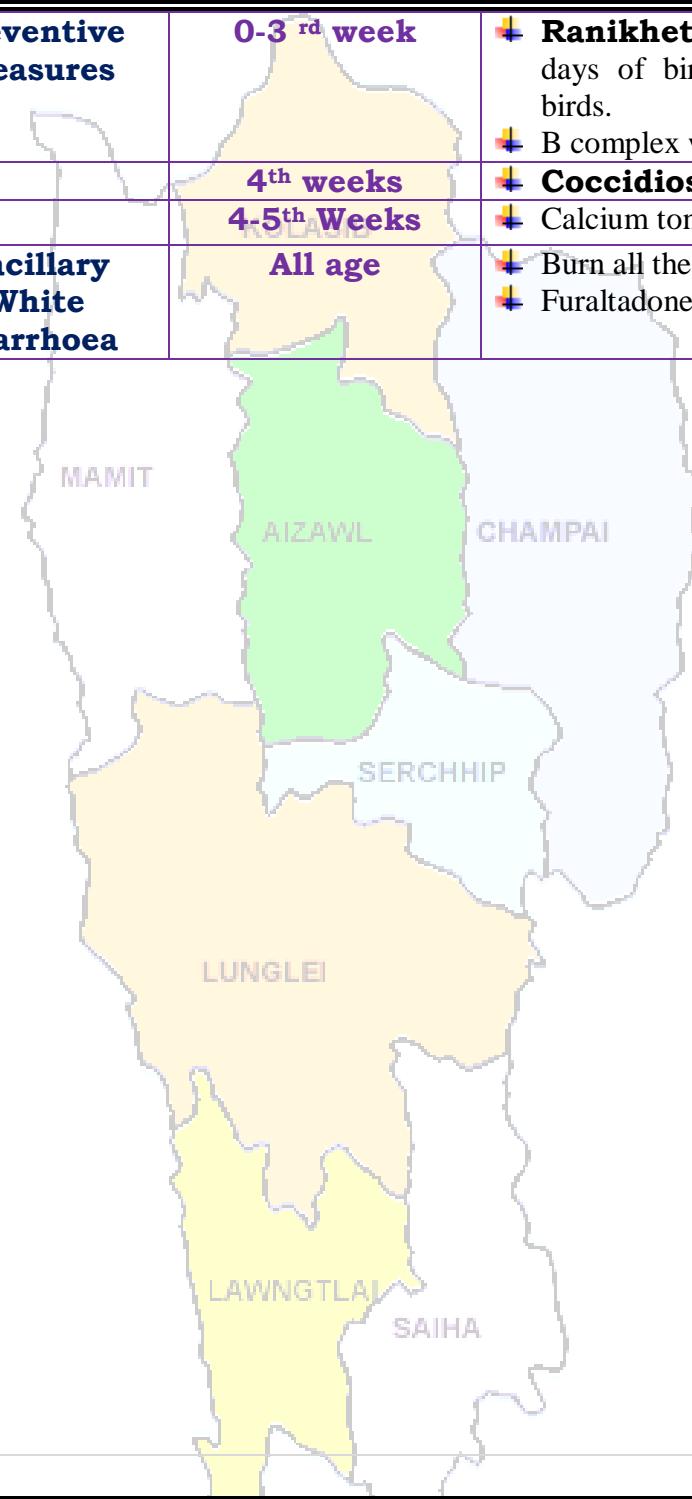
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	<b>Preventive measures</b>	<b>0-3<sup>rd</sup> week</b>	<ul style="list-style-type: none"><li>✚ <b>Ranikhet Disease-</b> F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li><li>✚ B complex with antibodies</li></ul>
		<b>4<sup>th</sup> weeks</b>	<ul style="list-style-type: none"><li>✚ <b>Coccidiosis-</b> Amprolium or coccidiostat</li><li>✚ Calcium tonic fortified with B<sub>12</sub></li></ul>
		<b>4-5<sup>th</sup> Weeks</b>	<ul style="list-style-type: none"><li>✚ Burn all the dead birds.</li><li>✚ Furaltadone@ 0.5 g/litre of water for 7 days.</li></ul>
	<b>Bacillary White Diarrhoea</b>	<b>All age</b>	





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**Expert committee members:**

<b>Dr. S.B. Singh</b>	:	Joint Director	<a href="mailto:basantasinghsoibam@rediffmail.com">basantasinghsoibam@rediffmail.com</a>
<b>Dr. Saurav Saha</b>	:	Scientist (Agril. Physics)	<a href="mailto:sauravs.saha@gmail.com">sauravs.saha@gmail.com</a>
<b>Dr. T. Boopathi</b>	:	Scientist (Agril Entomology)	<a href="mailto:boopathiars@gmail.com">boopathiars@gmail.com</a>
<b>Dr. Sudip Kumar Dutta</b>	:	Scientist (Hort.)	<a href="mailto:sudipiari@rediffmail.com">sudipiari@rediffmail.com</a>
<b>Dr. A. Ratankumar Singh</b>	:	Scientist (Plant Pathology)	<a href="mailto:ratanplantpatho@gmail.com">ratanplantpatho@gmail.com</a>
<b>Dr. L. H. Puii</b>	:	Scientist (Vet. Microbiology)	<a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>
<b>Dr. Lungmuana</b>	:	Scientist (Soil Fertility)	<a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>
<b>Dr. M. Thoithoi Devi</b>	:	Scientist (Agronomy)	<a href="mailto:thoigri@gmail.com">thoigri@gmail.com</a>
<b>Mr. Samik Chowdhury</b>	:	Technical Officer	<a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>
<b>Mr. Evans Syiem</b>	:	Meteorological Observer	<a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>
<b>Mr. Vanthawmliana</b>	:	Senior Research Fellow (Mizo language Translator)	<a href="mailto:Tom_tom79@yahoo.in">Tom_tom79@yahoo.in</a>
<b>Mrs. Monika Bora</b>	:	Meteorological Observer (IMD)	<a href="mailto:boramonika@rediffmail.com">boramonika@rediffmail.com</a>

**Collaborating Department:**

Name of the KVK	Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
<b>KVK Lunglei</b>	: <b>Dr. Lalmuanzovi</b> Head & Sr. Scientist	<a href="mailto:kvhnahthial@gmail.com">kvhnahthial@gmail.com</a>	9862803750 9436154614
<b>KVK, Kolasib</b>	: <b>Mr. Lalrosamga Khiangte</b> Head & Sr. Scientist	<a href="mailto:kvkkolasib@gmail.com">kvkkolasib@gmail.com</a>	9436152440
<b>KVK, Serchhip</b>	: <b>Mr. K. Laltlanmawia</b> Head & Sr. Scientist	<a href="mailto:kvkserchhip@gmail.com">kvkserchhip@gmail.com</a>	9436146115 9615389293
<b>KVK, Champhai</b>	: <b>Mrs. Lalrinawmi Renthlei</b> Head & Sr. Scientist	<a href="mailto:kvkkhawzawl@gmail.com">kvkkhawzawl@gmail.com</a>	9436159788
<b>KVK, Lawngtlai</b>	: <b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	<a href="mailto:kvklawntlai@gmail.com">kvklawntlai@gmail.com</a>	9436155858
<b>KVK, Saiha</b>	: <b>Dr. Vanlahruaia Hnampe</b> Head & Sr. Scientist	<a href="mailto:kvksaiha@gmail.com">kvksaiha@gmail.com</a>	8974656509
<b>KVK, Mamit</b>	: <b>Dr. Samuel Lalliansanga</b> Head & Sr. Scientist	<a href="mailto:kvkmamit@gmail.com">kvkmamit@gmail.com</a>	9436147625
<b>KVK, Aizawl</b>	: <b>Dr. K. P. Chaudhary</b> Head & Sr. Scientist	<a href="mailto:Kpchy@rediffmail.com">Kpchy@rediffmail.com</a> <a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>	9436351669



# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District: Aizawl**

**Period: 14 – 18 September, 2016**

**Bulletin No: - 636/2016/ Bulletin/Mizo**

**Date of issue: 13<sup>th</sup> September, 2016**

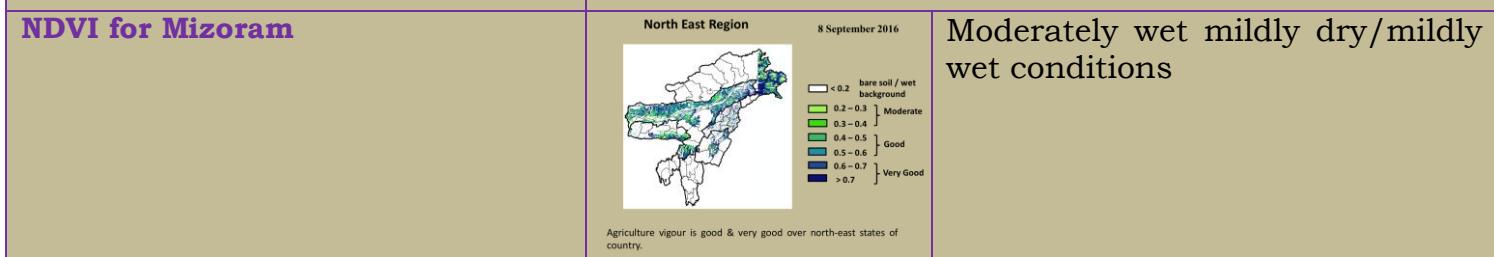
Parameters	14.09.2016	15.09.2016	16.09.2016	17.09.2016	18.09.2016
Rainfall (mm)	3	5	11	8	8
Max Temp (°C)	33	33	33	33	34
Min Temp (°C)	22	23	23	23	23
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	99	100	99	100
Min RH (%)	79	67	79	88	67
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	S-E	S-E	S-E	E	E

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

**STATUS OF MONSOON- 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)

<b>Ni thum kalta sik leh sa dinhmun tlangpui</b>  <b>Maximum Tem. (°C):22-25°C</b> <b>Minimum Tem. (°C): 19-21°C</b> <b>Maximum RH (%):98-99%</b> <b>Minimum RH (%):79-94%</b> <b>Wind Direction: southeasterly</b> <b>Cloud cover: Mainly cloudy</b> <b>Wind speed: 3 km/hr</b>  <b>Rainfall: 89.3 mm</b>	<b>14<sup>th</sup> September- 18<sup>th</sup> September, 2016</b> <b>chhunga sik leh sa dinhmun tur tlangpui</b>  Ni 5 lo awm turah hian ruahui tam vak lo a tlak beisei a ni. Khua a lum lai berin 33-34°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 67-88% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.  <b>Weekly cumulative rainfall: 35.0mm</b>
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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>KOLASIB MAMIT AIZAWL CHAMPA SERCHHIP LUNGLEI LAWNGTLAI SAIHA</p>	<ul style="list-style-type: none"> <li>⊕ Heng ser tiak te hi Ni zung hmuh thatna, thili laka him hmunah phun tur a ni.</li> <li>⊕ Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni.</li> <li>⊕ 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.</li> <li>⊕ 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.</li> <li>⊕ 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.</li> </ul>
		Citrus Cancar	<ul style="list-style-type: none"> <li>⊕ 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.</li> <li>⊕ Kung tlemte chauhin he natna an</li> </ul>



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		<p><b>Citrus leafminor and butterfly</b></p>	<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"> <li>▪ 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).</li> </ul>
<b>Oil Palm</b>	<b>A tet lai</b>		<ul style="list-style-type: none"> <li>▪ Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni.</li> <li>▪ Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni.</li> <li>▪ Oil palm tiak chu 2.5cm vela thuk in phum tur.</li> <li>▪ Nitin tui pek tur.</li> <li>▪ A tiak pakhat tan leitha SSP, MOP leh Mg<sub>2</sub>SO<sub>4</sub> cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni.</li> <li>▪ A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni.</li> <li>▪ Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.</li> </ul>
	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>▪ A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni.</li> <li>▪ Kung khatah 600:200:100 (NPK) hi hmun hniyah thena apply tur a ni.</li> <li>▪ 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.</li> </ul>



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Balhla	A par lai	KOLASIB	<ul style="list-style-type: none"><li>Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.</li><li>Balhla kung bul vel</li><li>tihfai a a hnah ro te thlak bawk tur.</li><li>Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni.</li><li>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.</li></ul>
		BANGLA CHAMPAI	<ul style="list-style-type: none"><li>Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 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).</li></ul>
		Banana panama wilt	<ul style="list-style-type: none"><li>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.</li></ul>
	A hmin hun	LUNGLEI	<ul style="list-style-type: none"><li>Balhla hi a par atanga ni 120-140 inkarah a hmin tlangpui.</li><li>A raha kil a reh hnu, a mam pal hunah seng chauh tur a ni.</li><li>Balhla bu a puitlin tawh chuan a hnah chung ber a ro tan thin.</li></ul>
		Banana fruit caterpillar	<ul style="list-style-type: none"><li>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.</li></ul>
		Banana thrips	<ul style="list-style-type: none"><li>A rah hunlaia polythene bag-a a kung tuam hian rannung thenkhat lakah a veng ve a ni.</li></ul>
Sapthei	Phunsawn hunlai		<ul style="list-style-type: none"><li>Rah chhuah tha, virus kai lo thlan tur a ni.</li><li>Phunsawn atana kan lak hian a</li></ul>



# 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)*



			<p>kunga chawrno (bud) 3 tal a keng tel tur a ni.</p> <ul style="list-style-type: none"> <li>■ Phun sawn veleh hian maul eh polythene a siam hmun uap tak tak (chamber\0 ah dah tur a ni).</li> <li>■ <b>Grafting (a kung zawm):</b></li> <li>■ Sapthei chhung eng (yellow) hi polythene bag ah an phun a, Rahangala hybrid kung tantawi nen an zawm thin.</li> </ul> <p>A bulhnai vel tihfai that tur.</p> <p>Khaw ro lai chuan a zung bulah lei rihvur a, hnimhnah dah bawk tur a ni.</p> <p>Zingkar leh tlai lama Ni a hmuh that theihnan Hmarthlang lam hawitir tur a ni.</p> <p>A zar no ho a zamna tur siam mumal tur.</p> <p>Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw, acephate 1.0g emaw dimethoate 2ml emaw, tui litre khatah pawlh a, kah tur.</p> <p>A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni.</p> <p>Local market (khawchhunga hrakh nghan tur) atan chuan a hmin tan lek lek ah seng tur.</p> <p>Thawnchhuah tur atan erawh chuan a rawng a eng (yellow) hma hretah seng tur a ni.</p> <p>Sazu bu leh kua vel tihchhiat a, a hmun vel fai taka enkawl tur.</p> <p>Sazu chaw vel a awm loh nan hnim vel tihfai that tur.</p> <p>Sazu an tam viau chuan sazu tur 2% Zinc phosphide (96% buh nawi, 2% edible oil leh 2%ZnP) hman tur a ni.</p> <p>A bul vel tihfai that a, a zar tangkai lo ho pahi tur.</p>
	<b>Par a chhuah hma</b>		<p>Aphid</p>
Lakhuihthei	<b>A seng hunlai</b>		<p>Rat damage (Sazu in a tihchhiat)</p>
Colocasia	<b>Par a chhuah hma</b>		



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		<b>Corm borer</b>	<ul style="list-style-type: none"> <li>■ A zung bul rih vur a leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> </ul>
<b>Cucurbitaceous crops</b>	<b>A seng hun</b>	<b>AIZAWL</b> <b>CHAMPAI</b> <b>SERCHHIP</b>	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni.</li> <li>■ Tuthlawh hmangin hnime thlawn mai tur a ni.</li> <li>■ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni.</li> <li>■ A rah puitling ho chu seng nghal zel tur a ni.</li> </ul>
		<b>Fruit fly</b>	<ul style="list-style-type: none"> <li>■ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.</li> </ul>
<b>Bawrhsaibe</b>	<b>A par hma deuh atang a par thleng</b>	<b>LUNGLEI</b>	<ul style="list-style-type: none"> <li>■ A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni.</li> <li>■ A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni.</li> <li>■ Ruahtui tling a awm loh nan tui luankawr mumal siam tur a ni.</li> <li>■ A rah puitling apiang seng zel tur a ni.</li> </ul>
		<b>Okra leafroller</b>	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
<b>Behlawi</b>	<b>Rah a chhuah tan</b>	<b>LAWNGTLAI</b> <b>SAIHA</b>	<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar</li> </ul>



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	<b>atanga seng hun thleng</b>		<p>tangkai lo ho pah tur.</p> <ul style="list-style-type: none"> <li>⊕ A zung bul rih vur a leitha vawihnih pek tur.</li> <li>⊕ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.</li> <li>⊕ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> <li>⊕ A rah puitling apiang seng zel tur.</li> </ul>
Bawbawn	<b>Rah a chhuah tan atanga seng hun thleng</b>		<ul style="list-style-type: none"> <li>⊕ A bul vel tihfai that a, a zar tangkai lo ho pah tur.</li> <li>⊕ Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnime to tam tur a veng.</li> <li>⊕ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, thlai thang a tichak bawk.</li> <li>⊕ Ram Hactare khata zauah leitha Urea 50kg hi hmum hniah thenin vawihnih phul tur a ni.</li> <li>⊕ A rah puitling apiang seng zel tur.</li> </ul>
	<b>Shoot and fruit borer (thlai kung leh a rah bawm chi rannung)</b>		<ul style="list-style-type: none"> <li>⊕ Natna in a tihchhiat tawh thlai peng lakthlak a pah tur.</li> <li>⊕ 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.</li> </ul>
	<b>Brinjal leaf beetle</b>		<ul style="list-style-type: none"> <li>⊕ 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.</li> </ul>
Kharif rice (Buh fur laia chin chi)	<b>Phun sawn hunlai</b>		<ul style="list-style-type: none"> <li>⊕ Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur.</li> <li>⊕ Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur.</li> </ul>



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Kharif rice	<b>A peng insiamtur zawng zawng insiam zawk hnu lawnk</b>	KOLASIB	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Pre Kharif Rice	<b>A vui inseam tan lai</b>	MAMIT	<ul style="list-style-type: none"> <li>■ A bul vela hnime leh thlaidang lo to ve palh te pawh thlawn tur.</li> <li>■ Leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luanna mumal tak siam tur.</li> </ul>
		RICE FIELD CHAMPAI	<b>Rice yellow stem borer</b>
Vaimim fur hma a seng chi	<b>A seng hun</b>	SERCHHIP	<ul style="list-style-type: none"> <li>■ A hnah hmawr tan tur.</li> <li>■ A kung hrisel lo lai pah tur</li> <li>■ Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.</li> </ul>
Vaimim fur hma hreta seng chi	<b>A kung puitlin hun</b>	LUNGLEI	<ul style="list-style-type: none"> <li>■ A kung bul vela hnime vel tihfai that tur.</li> <li>■ Leitha nena rihvur tur.</li> <li>■ Leitha vawi hnih pek tur.</li> </ul>
			<b>Maize cob borer (vaimim kawm bawmtu rannung)</b>
Sawhthing leh Aieng	<b>Par a chhuah hma</b>	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> <li>■ Thlai hnah, a tang ro leh hnime te chu pahfai vek tur.</li> <li>■ Lin tirk (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kg a.i ha<sup>-1</sup> Metolachlor (Dual) @1.5-2.0 kg a.i ha<sup>-1</sup>, Pendimethalin (Stomp)</li> </ul>



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			<p>@ 1-1.5kg a.i ha<sup>-1</sup> te hian hnimhnah lian lampang chi a veng a ni.</p>
		<b>Turmeric shoot borer (Aieng kung ei chhetu rannung) KOLASIB</b>	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Kharif pulses (Green gram, Black gram and Rajma)	<b>Par a chhuah atanga rah a chhuah thleng</b>		<ul style="list-style-type: none"> <li>■ A bul vela hnim leh thlaidang lo to ve te that a pahi tur.</li> <li>■ A kung bulah rih vur tur.</li> <li>■ Natna kai tawh thlai te lakhawm a halral tur.</li> </ul>
	MAMIT	<b>Aphid and bug</b> AIZAWL CHAMPAI	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Vawk	<b>Kumtluanin</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	<p>1. A natna vei vawk te chu thah a phum tur a ni.</p>
	<b>A puitling hun</b>	<b>Swine fever.</b> SERCHHIP	<p>2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur</p>
Bawng	<b>Kumtluanin</b>	<b>Foot and Mouth Disease (FMD)</b> LUNGLEI	<ul style="list-style-type: none"> <li>• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.</li> </ul>
	<b>A naupan lai</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> <li>■ Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>■ Kumkhat hnu ah vaccine pek leh tur.</li> </ul> </li> </ul>
Ar	<b>Kumtluanin</b>	<b>Ranikhet Disease.</b> LAWNGTLAI SAIHA	<p>1. Ar note an pian hlimin F1 vaccine pek tur a nia an puitlin hunah R<sub>2</sub>B pek leh tur a ni.</p> <p>2. Amprolium emaw coccidiostat pek tur.</p>
		<b>Coccidiosis</b>	



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### Expert committee members:

<b>Dr. S.B. Singh</b>	:	Joint Director	<a href="mailto:basantasinghsoibam@rediffmail.com">basantasinghsoibam@rediffmail.com</a>
<b>Dr. Saurav Saha</b>	:	Scientist (Agril. Physics)	<a href="mailto:sauravs.saha@gmail.com">sauravs.saha@gmail.com</a>
<b>Dr. T. Boopathi</b>	:	Scientist (Agril Entomology)	<a href="mailto:boopathiars@gmail.com">boopathiars@gmail.com</a>
<b>Dr. Sudip Kumar Dutta</b>	:	Scientist (Hort.)	<a href="mailto:sudipiari@rediffmail.com">sudipiari@rediffmail.com</a>
<b>Dr. A. Ratankumar Singh</b>	:	Scientist (Plant Pathology)	<a href="mailto:ratanplantpatho@gmail.com">ratanplantpatho@gmail.com</a>
<b>Dr. L. H. Puii</b>	:	Scientist (Vet. Microbiology)	<a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>
<b>Dr. Lungmuana</b>	:	Scientist (Soil Fertility)	<a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>
<b>Dr Y. Ramakrishna</b>	:	Farm manager (T-6)	<a href="mailto:ramakrishnaiari@rediffmail.com">ramakrishnaiari@rediffmail.com</a>
<b>Mr. Samik Chowdhury</b>	:	Technical Officer	<a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>
<b>Mr. Evans Syiem</b>	:	Meteorological Observer	<a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>
<b>Mr. Vanthawmliana</b>	:	Senior Research Fellow (Mizo language Translator)	<a href="mailto:Tom_tom79@yahoo.in">Tom_tom79@yahoo.in</a>
<b>Mrs. Monika Bora</b>	:	Meteorological Observer	<a href="mailto:boramonika@rediffmail.com">boramonika@rediffmail.com</a>

### Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	<a href="mailto:kvklunglei@gmail.com">kvklunglei@gmail.com</a> <a href="mailto:kvknahthial@gmail.com">kvknahthial@gmail.com</a>
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	<a href="mailto:kvkkolasib@gmail.com">kvkkolasib@gmail.com</a>
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	<a href="mailto:Mmami997@yahoo.com">Mmami997@yahoo.com</a> <a href="mailto:kvksurchhip@gmail.com">kvksurchhip@gmail.com</a>
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	<a href="mailto:pckvkhawzawl@rediffmail.com">pckvkhawzawl@rediffmail.com</a>
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	<a href="mailto:vvl9@rediffmail.com">vvl9@rediffmail.com</a> <a href="mailto:kvklawngtalai@rediffmail.com">kvklawngtalai@rediffmail.com</a>
Ms. C. Racheal	:	PC KVK, Saiha	<a href="mailto:kvksaiha@gmail.com">kvksaiha@gmail.com</a> <a href="mailto:rachoza@gmail.com">rachoza@gmail.com</a>
Mr. Vanlalhrauaia Hnamte	:	PC KVK, Mamit	<a href="mailto:kvkmamit@yahoo.in">kvkmamit@yahoo.in</a>
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	<a href="mailto:Kpchy@rediffmail.com">Kpchy@rediffmail.com</a> <a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>



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**District: Champhai**

**Period: 14 – 18 September, 2016**

**Bulletin No: - 636/2016/ Bulletin/English**

**Date of issue: 13<sup>th</sup> September, 2016**

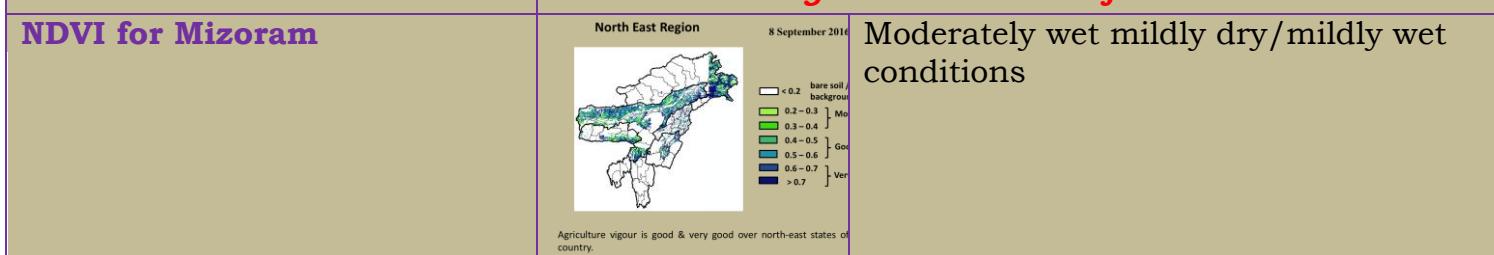
Parameters	14.09.2016	15.09.2016	16.09.2016	17.09.2016	18.09.2016
<b>Rainfall (mm)</b>	8	9	8	7	10
<b>Max Temp (°C)</b>	32	32	32	33	33
<b>Min Temp (°C)</b>	22	22	22	23	23
<b>Cloud Coverage</b>	Mainly cloudy				
<b>Max RH (%)</b>	99	98	98	98	98
<b>Min RH (%)</b>	81	70	77	84	74
<b>Wind Speed (KmpH)</b>	2	2	2	2	2
<b>*Wind Direction</b>	S-E	S-E	S	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 14 <sup>th</sup> September, 2016 To 18 <sup>th</sup> September, 2016.
<b>Maximum Tem. (°C): 24-26°C</b> <b>Minimum Tem. (°C): 18-20°C</b> <b>Maximum RH (%): 96-100%</b> <b>Minimum RH (%): 76-97%</b> <b>Wind Direction: Southeasterly</b> <b>Cloud cover: Mainly cloudy</b> <b>Wind Speed: 3km/hr</b>  <b>Rainfall: 124.6 mm</b>	<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 32-33°C and 22-23°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 74-81%. Wind direction would be southeasterly to southerly 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 style="text-align: center;"><b>Weekly cumulative rainfall: 42.0 mm</b></p>





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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
<b>Khasi Mandarin and acid lime</b>	<b>Flowering to fruit formation stage</b>	 KOLASIB AIZAWL MAMIT SERCHHIP Fruit fly	<ul style="list-style-type: none"><li>➡ In north-eastern parts of India, Khasi mandarins are very closely spaced (6 m. X 6 m.), accommodating more than 120 plants/ha.</li><li>➡ Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water for one hectare area).</li><li>➡ Make a circle near to the plant and apply 25 kg FYM along with 20 g urea and 125 g SSP.</li><li>➡ Remove all unwanted plants from near the base of the plant.</li><li>➡ Care should be taken to avoid water stagnation in the bags.</li></ul>
		 LUNGLEI Fruit fly LAWNGTLAI SAIHA Dia back disease	<ul style="list-style-type: none"><li>➡ 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.</li></ul>
<b>Passion Fruit</b>	<b>Flowering to Fruit formation stage</b>	 LUNGLEI Fruit fly LAWNGTLAI SAIHA	<ul style="list-style-type: none"><li>➡ Remove all infected plant and burn it.</li><li>➡ Pruning of effected part spraying with carbendazim/Bordeaux mixture 1.0%</li><li>➡ Clean near the base of the plant.</li><li>➡ In dry spell apply mulch with grass.</li><li>➡ Trellises are in the north-south direction to minimize the shades during early morning and late evening.</li><li>➡ Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water for one hectare area).</li><li>➡ Apply 100: 50:100g as NPK per plant.</li></ul>
		 LUNGLEI Fruit fly LAWNGTLAI SAIHA	<ul style="list-style-type: none"><li>➡ Collect and burn all infected plant.</li><li>➡ 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.</li></ul>



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Banana	Harvesting stage	Map showing districts affected by Banana Rhizome weevil (AIZAWL) and Banana panama wilt (SERCHHIP).	<ul style="list-style-type: none"><li>Change of colour from green to yellowish.</li><li>Fingers are about three quarters full i.e. 3/4 of fruit is rounded</li><li>Ridges should still be prominent on the remaining quarter of the finger.</li><li>Harvest bananas when they are swollen and green but before they become ripe (plump and yellow).</li><li>Too early (when the bananas are thin and dark green).</li><li>Too late (when they are thick and turning yellow).</li></ul>
	MAMIT	Banana Rhizome weevil AIZAWL	<ul style="list-style-type: none"><li>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 1<sup>st</sup> instars predominate which coincides with I Fortnight of July.</li></ul>
		Banana panama wilt SERCHHIP	<ul style="list-style-type: none"><li>Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.</li></ul>
		Banana beetle	<ul style="list-style-type: none"><li>Removal of weeds from basin</li><li>Removal of unwanted sucker</li><li>Application of alphamethrin @ 0.01%.</li></ul>
Pineapple	Harvest stage	LUNGLEI	<ul style="list-style-type: none"><li>A basal golden yellow coloration at the base is the sign of a ripe fruit.</li><li>Fresh fruits destined for the local market are plucked when almost ripe.</li><li>Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).</li></ul>
		Rat damage LAWNGTIA SAIHA	<ul style="list-style-type: none"><li>Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.</li><li>Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields.</li><li>Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent</li></ul>



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			infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
<b>Oil plam</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>■ Time from flowering to harvesting of ripe fruit is 5-6 months.</li><li>■ Fruit brunch is tightly wedge in the leaf axil of the plam.</li><li>■ Brunch of a mature plam contains 1,000 to 4,000 fruits, depending on the trees agr and vigor.</li><li>■ Bunch weights at maturity 15-25 kg.</li><li>■ The percentage of fruits per bunch is usually 50-60%.</li><li>■ The egg shaped fruits weight 10-20 g.</li><li>■ The pulp around the nut contains the red palm oil.</li><li>■ The kernel in the nut contains oil very similar to coconut oil, but palm oil and palm kernel oil are chemically different.</li></ul>
<b>Colocasia</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>■ Remove unwanted plant near base of the plant and cut dead branches.</li><li>■ Earthing up soil at base of the plant along with split doses of fertilizer.</li><li>■ Proper drainage is required to avoid water logging.</li><li>■ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.</li></ul>
			<ul style="list-style-type: none"><li>■ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.</li></ul>
<b>Baibing (Local Vegetable)</b>	<b>Flowering to fruit formation stage</b>		<ul style="list-style-type: none"><li>■ Weed free near base of the plant.</li><li>■ Earthing of soil to the plant.</li><li>■ Apply split dose of fertilizer.</li><li>■ Apply 2g/pt when flower drop is observed.</li></ul>
<b>Cucurbitaceo us crop</b>	<b>Harvesting stage</b>		<ul style="list-style-type: none"><li>■ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application</li><li>■ Weeding can be done by hoeing as and when necessary.</li><li>■ Fruit rot during rainy season can be</li></ul>



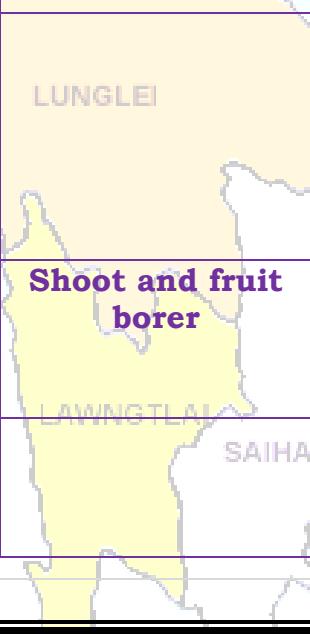
# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD,  
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			<p>checked by training the plants over the bamboo stick or dried branches.</p> <ul style="list-style-type: none"><li>■ Harvest all mature fruit.</li></ul>
		<b>Fruit fly</b> <b>KOLASIB</b>	<ul style="list-style-type: none"><li>■ 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.</li></ul>
<b>Okra</b>	<b>Harvesting stage</b>		<ul style="list-style-type: none"><li>■ Harvest all mature fruit.</li><li>■ Keep over mature fruit for seed production.</li><li>■ Keep dry fruits in sun for drying and store for next year</li></ul>
		<b>Okra leafroller</b> <b>AIZAWL</b>	<ul style="list-style-type: none"><li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
<b>Cowpea</b>	<b>Fruit initiation to harvest</b>		<ul style="list-style-type: none"><li>■ Remove unwanted plant near base of the plant and cut dead branches.</li><li>■ Earthing up soil at base of the plant along with split doses of fertilizer.</li><li>■ Proper drainage is required to avoid water logging.</li><li>■ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.</li><li>■ Harvest all mature fruit.</li></ul>
<b>Brinjal</b>	<b>Harvesting stage</b>		<ul style="list-style-type: none"><li>■ Harvest all mature fruit.</li><li>■ Keep over mature fruit for seed production.</li><li>■ Extract seeds from full ripened or over matured fruit.</li><li>■ Keep extracted for sun dry and keep for next year.</li></ul>
		<b>Shoot and fruit borer</b> <b>LAWNGTLAI</b>	<ul style="list-style-type: none"><li>■ Collect and destroy infected parts of the plant.</li><li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
<b>Tomato</b>	<b>Transplanting stage</b>		<ul style="list-style-type: none"><li>■ Plant should be transplant at 4 leaf stage.</li><li>■ Spacing: row to row-60cm and plant to plant- 45 cm.</li></ul>



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			<ul style="list-style-type: none"><li>Before transplant, seedling treated with 0.002% solution for 15 minutes.</li><li>Apply 120:80:60 kg NPK/ha in two split doses (50% at transplanting stage, 25% at vegetative stage and 25% at flowering stage).</li></ul>
		<b>Damping off</b> 	<ul style="list-style-type: none"><li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li><li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li></ul>
<b>Early Cole crop</b>	<b>Transplanting stage</b>	<b>Land preparation</b> 	<ul style="list-style-type: none"><li>Plant should be transplant at 4 leaf stage.</li><li>Spacing: row to row-60cm and plant to plant- 45 cm.</li><li>Before transplant, seedling treated with 0.002% solution for 15 minutes.</li><li>Apply 120:80:60 kg NPK/ha in two split doses (50% at transplanting stage, 25% at vegetative stage and 25% at flowering stage).</li></ul>
		<b>Damping off</b> 	<ul style="list-style-type: none"><li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed.</li><li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li></ul>
<b>Ginger and turmeric</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>Remove unwanted plant near base of the plant and cut dead branches.</li><li>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.</li><li>Earting up of soil along with fertilizer</li></ul>



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			mixture.
		<b>Turmeric shoot borer</b>	<ul style="list-style-type: none"> <li>⊕ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> </ul>
<b>Pre kharif Rice</b>	<b>Panicle Initiation to booting stage</b>	KOLASIB	<ul style="list-style-type: none"> <li>⊕ Remove unwanted plant by hand weeding.</li> <li>⊕ Apply split dose of fertilizer.</li> <li>⊕ Proper drainage is required to avoid water logging</li> </ul>
		<b>Rice yellow stem borer</b>	<ul style="list-style-type: none"> <li>⊕ Cut leaf tip from the seedling.</li> <li>⊕ Collect and destroy infected parts of the plant.</li> <li>⊕ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> </ul>
<b>Kharif Maize</b>	<b>Physiological maturity</b>	AIZAWL SERCHHIP	<ul style="list-style-type: none"> <li>⊕ Grain is not ready for safe storage Needs to be at 13-15% moisture for long-term storage May be advantageous to let crop partially dry in the field</li> <li>⊕ Frost has no effect on yield at this point. However, lodging from disease, insect damage or can result in physical loss of yield.</li> </ul>
		<b>Rat damage</b>	<ul style="list-style-type: none"> <li>⊕ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.</li> <li>⊕ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields.</li> <li>⊕ Keep the cobs in slender position from the stem.</li> <li>⊕ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Pig disease</b> LAWNGTLAI SAIHA	<ul style="list-style-type: none"> <li>⊕ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea.once the symptom are noticed, call veterinarian doctor.</li> </ul>



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		<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval <ul style="list-style-type: none"><li>• FMD vaccine at 16 week and repeat every 6 month.</li></ul>
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"><li>• Black Quarter Vaccine (BQV).</li><li>❖ Primary vaccination 6 month or above</li><li>❖ Revaccination annually</li></ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	
<b>Poultry</b>	<b>Litter management</b>	AIZAWL	<ul style="list-style-type: none"><li>✚ Maintain light 12-14 hrs in brooder house.</li><li>✚ The litter should be 7.5- 10 cm deep.</li><li>✚ Saw dust, paddy husk or ground nut hulls can be used as litter.</li><li>✚ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.</li></ul>
	<b>Preventive measures</b>	0-3 <sup>rd</sup> week SERCHHIP	<ul style="list-style-type: none"><li>✚ <b>Ranikhet Disease-</b> F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li><li>✚ B complex with antibodies</li></ul>
		4 <sup>th</sup> weeks	<ul style="list-style-type: none"><li>✚ <b>Coccidiosis-</b> Amprolium or coccidiostat</li></ul>
		4-5 <sup>th</sup> Weeks	<ul style="list-style-type: none"><li>✚ Calcium tonic fortified with B<sub>12</sub></li></ul>
	<b>Bacillary White Diarrhoea</b>	LUM All stage	<ul style="list-style-type: none"><li>✚ Burn all the dead birds.</li><li>✚ Furaltadone@ 0.5 g/litre of water for 7 days.</li></ul>



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### Expert committee members:

<b>Dr. S.B. Singh</b>	:	Joint Director	<a href="mailto:basantasinghsoibam@rediffmail.com">basantasinghsoibam@rediffmail.com</a>
<b>Dr. Saurav Saha</b>	:	Scientist (Agril. Physics)	<a href="mailto:sauravs.saha@gmail.com">sauravs.saha@gmail.com</a>
<b>Dr. T. Boopathi</b>	:	Scientist (Agril Entomology)	<a href="mailto:boopathiars@gmail.com">boopathiars@gmail.com</a>
<b>Dr. Sudip Kumar Dutta</b>	:	Scientist (Hort.)	<a href="mailto:sudipiari@rediffmail.com">sudipiari@rediffmail.com</a>
<b>Dr. A. Ratankumar Singh</b>	:	Scientist (Plant Pathology)	<a href="mailto:ratanplantpatho@gmail.com">ratanplantpatho@gmail.com</a>
<b>Dr. L. H. Puii</b>	:	Scientist (Vet. Microbiology)	<a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>
<b>Dr. Lungmuana</b>	:	Scientist (Soil Fertility)	<a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>
<b>Dr. M. Thoithoi Devi</b>	:	Scientist (Agronomy)	<a href="mailto:thoigri@gmail.com">thoigri@gmail.com</a>
<b>Mr. Samik Chowdhury</b>	:	Technical Officer	<a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>
<b>Mr. Evans Syiem</b>	:	Meteorological Observer	<a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>
<b>Mr. Vanthawmliana</b>	:	Senior Research Fellow (Mizo language Translator)	<a href="mailto:Tom_tom79@yahoo.in">Tom_tom79@yahoo.in</a>
<b>Mrs. Monika Bora</b>	:	Meteorological Observer (IMD)	<a href="mailto:boramonika@rediffmail.com">boramonika@rediffmail.com</a>

### Collaborating Department:

Name of the KVK	Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
<b>KVK Lunglei</b>	: <b>Dr. Lalmuanzovi</b> Head & Sr. Scientist	<a href="mailto:kvhnahthial@gmail.com">kvhnahthial@gmail.com</a>	9862803750 9436154614
<b>KVK, Kolasib</b>	: <b>Mr. Lalrosamga Khiangte</b> Head & Sr. Scientist	<a href="mailto:kvkkolasib@gmail.com">kvkkolasib@gmail.com</a>	9436152440
<b>KVK, Serchhip</b>	: <b>Mr. K. Laltlanmawia</b> Head & Sr. Scientist	<a href="mailto:kvkserchhip@gmail.com">kvkserchhip@gmail.com</a>	9436146115 9615389293
<b>KVK, Champhai</b>	: <b>Mrs. Lalrinawmi Renthlei</b> Head & Sr. Scientist	<a href="mailto:kvkkhawzawl@gmail.com">kvkkhawzawl@gmail.com</a>	9436159788
<b>KVK, Lawngtlai</b>	: <b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	<a href="mailto:kvklawntlai@gmail.com">kvklawntlai@gmail.com</a>	9436155858
<b>KVK, Saiha</b>	: <b>Dr. Vanlahruaia Hnampe</b> Head & Sr. Scientist	<a href="mailto:kvksaiha@gmail.com">kvksaiha@gmail.com</a>	8974656509
<b>KVK, Mamit</b>	: <b>Dr. Samuel Lalliansanga</b> Head & Sr. Scientist	<a href="mailto:kvkmamit@gmail.com">kvkmamit@gmail.com</a>	9436147625
<b>KVK, Aizawl</b>	: <b>Dr. K. P. Chaudhary</b> Head & Sr. Scientist	<a href="mailto:Kpchy@rediffmail.com">Kpchy@rediffmail.com</a> <a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>	9436351669



# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District: Champhai**

**Period: 14 – 18 September, 2016**

**Bulletin No: - 636/2016/ Bulletin/Mizo**

**Date of issue: 13<sup>th</sup> September, 2016**

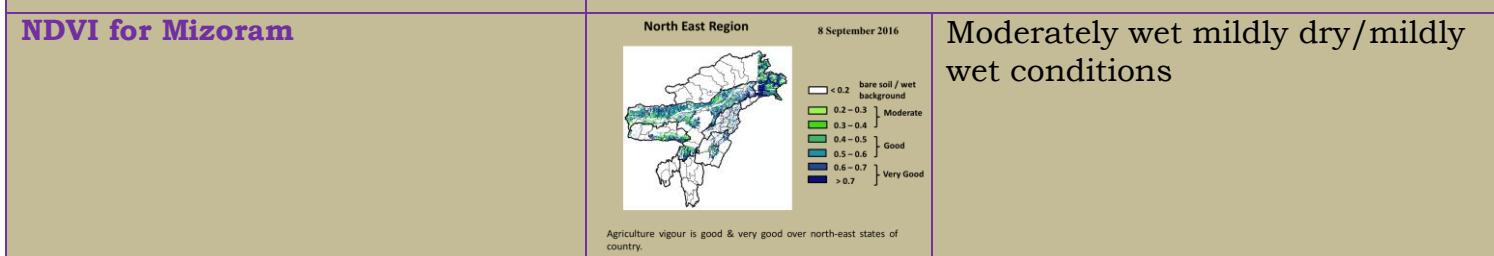
Parameters	14.09.2016	15.09.2016	16.09.2016	17.09.2016	18.09.2016
Rainfall (mm)	8	9	8	7	10
Max Temp (°C)	32	32	32	33	33
Min Temp (°C)	22	22	22	23	23
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	98	98	98	98
Min RH (%)	81	70	77	84	74
Wind Speed (KmPH)	2	2	2	2	2
*Wind Direction	S-E	S-E	S	S-E	E

**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)

<b>Ni thum kalta sik leh sa dinhmun tlangpui</b>  <b>Maximum Tem. (°C): 24-26°C</b> <b>Minimum Tem. (°C): 18-20°C</b> <b>Maximum RH (%): 96-100%</b> <b>Minimum RH (%): 76-97%</b> <b>Wind Direction: Southeasterly</b> <b>Cloud cover: Mainly cloudy</b> <b>Wind Speed: 3km/hr</b>  <b>Rainfall: 124.6 mm</b>	<b>14<sup>th</sup> September- 18<sup>th</sup> September, 2016</b> <b>chhunga sik leh sa dinhmun tur tlangpui</b>  Ni 5 lo awm turah hian ruahui tam vak lo a tlak beisei a ni. Khua a lum lai berin 32-33°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 74-81% 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.  <b>Weekly cumulative rainfall: 42.0mm</b>
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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>KOLASIB MAMIT AIZAWL CHAMPA SERCHHIP LUNGLEI LAWNGTLAI SAIHA</p>	<ul style="list-style-type: none"> <li>⊕ Heng ser tiak te hi Ni zung hmuh thatna, thili laka him hmunah phun tur a ni.</li> <li>⊕ Chin hunbi bik a awm lem lo a, April/May vel hi duhthusam a ni.</li> <li>⊕ 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.</li> <li>⊕ 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.</li> <li>⊕ 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.</li> </ul>
		Citrus Cancar	<ul style="list-style-type: none"> <li>⊕ 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.</li> <li>⊕ Kung tlemte chauhin he natna an</li> </ul>



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		<p style="color: red; font-weight: bold;">Citrus leafminor and butterfly</p>	<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"> <li>⊕ Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 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).</li> </ul>
<b>Oil Palm</b>	<b>A tet lai</b>		<ul style="list-style-type: none"> <li>⊕ Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni.</li> <li>⊕ Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzat theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni.</li> <li>⊕ Oil palm tiak chu 2.5cm vela thuk in phum tur.</li> <li>⊕ Nitin tui pek tur.</li> <li>⊕ A tiak pakhat tan leitha SSP, MOP leh Mg<sub>2</sub>SO<sub>4</sub> cawhpawlh 15g hi thlakhat a tlin hunah pek tur a ni a, 45g thlathum a tlin hunah leh 60g thlaruk a tlin hunah pek tur a ni.</li> <li>⊕ A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihnaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni.</li> <li>⊕ Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.</li> </ul>
	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>⊕ A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni.</li> <li>⊕ Kung khatah 600:200:100 (NPK) hi hmun hniyah thena apply tur a ni.</li> <li>⊕ 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.</li> </ul>



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Balhla	A par lai	KOLASIB	<ul style="list-style-type: none"><li>Oil palm rah te hi a rah a hmin hun, rawng mit la tak a rawn nih hunah seng tur a ni.</li><li>Balhla kung bul vel</li><li>tihfai a a hnah ro te thlak bawk tur.</li><li>Kung khatah 600:200:100 (NPK) hi hmun hnihah thena apply tur a ni.</li><li>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.</li></ul>
		BANGLA CHAMPAI	<ul style="list-style-type: none"><li>Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 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).</li></ul>
		Banana panama wilt	<ul style="list-style-type: none"><li>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.</li></ul>
	A hmin hun	LUNGLEI	<ul style="list-style-type: none"><li>Balhla hi a par atanga ni 120-140 inkarah a hmin tlangpui.</li><li>A raha kil a reh hnu, a mam pal hunah seng chauh tur a ni.</li><li>Balhla bu a puitlin tawh chuan a hnah chung ber a ro tan thin.</li></ul>
		Banana fruit caterpillar	<ul style="list-style-type: none"><li>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.</li></ul>
		Banana thrips	<ul style="list-style-type: none"><li>A rah hunlaia polythene bag-a a kung tuam hian rannung thenkhat lakah a veng ve a ni.</li></ul>
Sapthei	Phunsawn hunlai		<ul style="list-style-type: none"><li>Rah chhuah tha, virus kai lo thlan tur a ni.</li><li>Phunsawn atana kan lak hian a</li></ul>



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## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

*(Prepared based on District wise Weather Forecast received from IMD,  
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			<p>kunga chawrno (bud) 3 tal a keng tel tur a ni.</p> <ul style="list-style-type: none"> <li>■ Phun sawn veleh hian maul eh polythene a siam hmun uap tak tak (chamber\0 ah dah tur a ni).</li> <li>■ <b>Grafting (a kung zawm):</b></li> <li>■ Sapthei chhung eng (yellow) hi polythene bag ah an phun a, Rahangala hybrid kung tantawi nen an zawm thin.</li> </ul>
	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>■ A bulhnai vel tihfai that tur.</li> <li>■ Khaw ro lai chuan a zung bulah lei rihvur a, hnimhnah dah bawk tur a ni.</li> <li>■ Zingkar leh tlai lama Ni a hmuh that theihnan Hmarthlang lam hawitir tur a ni.</li> <li>■ A zar no ho a zamna tur siam mumal tur.</li> </ul>
			<ul style="list-style-type: none"> <li>■ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw, acephate 1.0g emaw dimethoate 2ml emaw, tui litre khatah pawlh a, kah tur.</li> </ul>
Lakhuihthei	<b>A seng hunlai</b>		<ul style="list-style-type: none"> <li>■ A rah mawng lampang rangkachak rawng eng (golden yellow) a rawn nih chuan seng a hun tan tihna a ni.</li> <li>■ Local market (khawchhunga hrall nghal tur) atan chuan a hmin tan lek lek ah seng tur.</li> <li>■ Thawnchhuah tur atan erawh chuan a rawng a eng (yellow) hma hretah seng tur a ni.</li> </ul>
			<ul style="list-style-type: none"> <li>■ Sazu bu leh kua vel tihchhiat a, a hmun vel fai taka enkawl tur.</li> <li>■ Sazu chaw vel a awm loh nan hnim vel tihfai that tur.</li> <li>■ Sazu an tam viau chuan sazu tur 2% Zinc phosphide (96% buh nawi, 2% edible oil leh 2%ZnP) hman tur a ni.</li> </ul>
Colocasia	<b>Par a chhuah hma</b>		<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar tangkai lo ho pahi tur.</li> </ul>



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		<b>Corm borer</b>	<ul style="list-style-type: none"> <li>■ A zung bul rih vur a leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> </ul>
<b>Cucurbitaceous crops</b>	<b>A seng hun</b>	<b>AIZAWL</b> <b>CHAMPAI</b> <b>SERCHHIP</b>	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ A to tirh atanga a seng hun inkarah thlai pakhat tan NPK (100:200:100g) pek tur a ni.</li> <li>■ Tuthlawh hmangin hnime thlawn mai tur a ni.</li> <li>■ Fur laia a rah tawih loh nan a zar chu mauin emaw dokan tur a ni.</li> <li>■ A rah puitling ho chu seng nghal zel tur a ni.</li> </ul>
		<b>Fruit fly</b>	<ul style="list-style-type: none"> <li>■ Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.</li> </ul>
<b>Bawrhsaibe</b>	<b>A par hma deuh atang a par thleng</b>	<b>LUNGLEI</b>	<ul style="list-style-type: none"> <li>■ A hnah ro vel pawhthlak a, a kung bul vel tih fai bawk tur a ni.</li> <li>■ A kung bul rihvur tur a ni a, leitha vawi hnih pek bawk tur a ni.</li> <li>■ Ruah tui tling a awm loh nan tui luankawr mumal siam tur a ni.</li> <li>■ A rah puitling apiang seng zel tur a ni.</li> </ul>
		<b>Okra leafroller</b>	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
<b>Behlawi</b>	<b>Rah a chhuah tan</b>	<b>LAWNGTLAI</b> <b>SAIHA</b>	<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar</li> </ul>



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	<b>atanga seng hun thleng</b>		<p>tangkai lo ho pah tur.</p> <ul style="list-style-type: none"> <li>■ A zung bul rih vur a leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> <li>■ A rah puitling apiang seng zel tur.</li> </ul>
Bawkbawn	<b>Rah a chhuah tan atanga seng hun thleng</b>		<ul style="list-style-type: none"> <li>■ A bul vel tihfai that a, a zar tangkai lo ho pah tur.</li> <li>■ Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnime to tam tur a veng.</li> <li>■ A zung bul vela Lei hi polythene duma khuh hian hnime to tur lakah a veng a, thlai thang a tichak bawk.</li> <li>■ Ram Hactare khata zauah leitha Urea 50kg hi hmum hniah thenin vawihnih phul tur a ni.</li> <li>■ A rah puitling apiang seng zel tur.</li> </ul>
	<b>Shoot and fruit borer (thlai kung leh a rah bawm chi rannung)</b>		<ul style="list-style-type: none"> <li>■ Natna in a tihchhiat tawh thlai peng lakthlak a pah tur.</li> <li>■ 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.</li> </ul>
	<b>Brinjal leaf beetle</b>		<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Kharif rice (Buh fur laia chin chi)	<b>Phun sawn hunlai</b>		<ul style="list-style-type: none"> <li>■ Hnah 3-5 nei natna kai lo chauh a tiak phuntur atan lak tur.</li> <li>■ Bavistin 50WP hi tui litre khatah 2g pawlh a, kah tur.</li> </ul>



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Kharif rice	<b>A peng insiamtur zawng zawng insiam zawn hnu lawk</b>	KOLASIB	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Pre Kharif Rice	<b>A vui inseam tan lai</b>	MAMIT	<ul style="list-style-type: none"> <li>■ A bul vela hnime leh thlaidang lo to ve palh te pawh thlawn tur.</li> <li>■ Leitha vawihnih pek tur.</li> <li>■ Tui tling tur vennan tui hawk luanna mumal tak siam tur.</li> </ul>
		RICE TAWL CHAMPAI	<b>Rice yellow stem borer</b>
Vaimim fur hma a seng chi	<b>A seng hun</b>	SERCHHIP	<ul style="list-style-type: none"> <li>■ A hnah hmawr tan tur.</li> <li>■ A kung hrisel lo lai pah tur</li> <li>■ Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosalone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.</li> </ul>
Vaimim fur hma hreta seng chi	<b>A kung puitlin hun</b>	LUNGLEI	<ul style="list-style-type: none"> <li>■ A kung bul vela hnime vel tihfai that tur.</li> <li>■ Leitha nena rihvur tur.</li> <li>■ Leitha vawi hnih pek tur.</li> </ul>
			<b>Maize cob borer (vaimim kawm bawmtu rannung)</b>
Sawhthing leh Aieng	<b>Par a chhuah hma</b>	LAWNGTLA SAIHA	<ul style="list-style-type: none"> <li>■ Thlai hnah, a tang ro leh hnime te chu pahfai vek tur.</li> <li>■ Lin tirth (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kg a.i ha<sup>-1</sup> Metolachlor (Dual) @1.5-2.0 kg a.i ha<sup>-1</sup>, Pendimethalin (Stomp)</li> </ul>



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			<p>@ 1-1.5kg a.i ha<sup>-1</sup> te hian hnimhnah lian lampang chi a veng a ni.</p>
		<b>Turmeric shoot borer (Aieng kung ei chhetu rannung) KOLASIB</b>	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Kharif pulses (Green gram, Black gram and Rajma)	<b>Par a chhuah atanga rah a chhuah thleng</b>		<ul style="list-style-type: none"> <li>■ A bul vela hnim leh thlaidang lo to ve te that a pahi tur.</li> <li>■ A kung bulah rih vur tur.</li> <li>■ Natna kai tawh thlai te lakhawm a halral tur.</li> </ul>
	MAMIT	<b>Aphid and bug</b> AIZAWL CHAMPAI	<ul style="list-style-type: none"> <li>■ 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.</li> </ul>
Vawk	<b>Kumtluanin</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	<p>1. A natna vei vawk te chu thah a phum tur a ni.</p>
	<b>A puitling hun</b>	<b>Swine fever.</b> SERCHHIP	<p>2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur</p>
Bawng	<b>Kumtluanin</b>	<b>Foot and Mouth Disease (FMD)</b> LUNGLEI	<ul style="list-style-type: none"> <li>• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.</li> </ul>
	<b>A naupan lai</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> <li>■ Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>■ Kumkhat hnu ah vaccine pek leh tur.</li> </ul> </li> </ul>
Ar	<b>Kumtluanin</b>	<b>Ranikhet Disease.</b> LAWNGTLAI SAIHA	<p>1. Ar note an pian hlimin F1 vaccine pek tur a nia an puitlin hunah R<sub>2</sub>B pek leh tur a ni.</p> <p>2. Amprolium emaw coccidiostat pek tur.</p>
		<b>Coccidiosis</b>	



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### Expert committee members:

<b>Dr. S.B. Singh</b>	:	Joint Director	<a href="mailto:basantasinghsoibam@rediffmail.com">basantasinghsoibam@rediffmail.com</a>
<b>Dr. Saurav Saha</b>	:	Scientist (Agril. Physics)	<a href="mailto:sauravs.saha@gmail.com">sauravs.saha@gmail.com</a>
<b>Dr. T. Boopathi</b>	:	Scientist (Agril Entomology)	<a href="mailto:boopathiars@gmail.com">boopathiars@gmail.com</a>
<b>Dr. Sudip Kumar Dutta</b>	:	Scientist (Hort.)	<a href="mailto:sudipiari@rediffmail.com">sudipiari@rediffmail.com</a>
<b>Dr. A. Ratankumar Singh</b>	:	Scientist (Plant Pathology)	<a href="mailto:ratanplantpatho@gmail.com">ratanplantpatho@gmail.com</a>
<b>Dr. L. H. Puii</b>	:	Scientist (Vet. Microbiology)	<a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>
<b>Dr. Lungmuana</b>	:	Scientist (Soil Fertility)	<a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>
<b>Dr Y. Ramakrishna</b>	:	Farm manager (T-6)	<a href="mailto:ramakrishnaiari@rediffmail.com">ramakrishnaiari@rediffmail.com</a>
<b>Mr. Samik Chowdhury</b>	:	Technical Officer	<a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>
<b>Mr. Evans Syiem</b>	:	Meteorological Observer	<a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>
<b>Mr. Vanthawmliana</b>	:	Senior Research Fellow (Mizo language Translator)	<a href="mailto:Tom_tom79@yahoo.in">Tom_tom79@yahoo.in</a>
<b>Mrs. Monika Bora</b>	:	Meteorological Observer	<a href="mailto:boramonika@rediffmail.com">boramonika@rediffmail.com</a>

### Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	<a href="mailto:kvklunglei@gmail.com">kvklunglei@gmail.com</a> <a href="mailto:kvknahthial@gmail.com">kvknahthial@gmail.com</a>
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	<a href="mailto:kvkkolasib@gmail.com">kvkkolasib@gmail.com</a>
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	<a href="mailto:Mmami997@yahoo.com">Mmami997@yahoo.com</a> <a href="mailto:kvksurchhip@gmail.com">kvksurchhip@gmail.com</a>
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	<a href="mailto:pckvkhawzawl@rediffmail.com">pckvkhawzawl@rediffmail.com</a>
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	<a href="mailto:vvl9@rediffmail.com">vvl9@rediffmail.com</a> <a href="mailto:kvklawngtalai@rediffmail.com">kvklawngtalai@rediffmail.com</a>
Ms. C. Racheal	:	PC KVK, Saiha	<a href="mailto:kvksaiha@gmail.com">kvksaiha@gmail.com</a> <a href="mailto:rachoza@gmail.com">rachoza@gmail.com</a>
Mr. Vanlalhrauaia Hnamte	:	PC KVK, Mamit	<a href="mailto:kvkmamit@yahoo.in">kvkmamit@yahoo.in</a>
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	<a href="mailto:Kpchy@rediffmail.com">Kpchy@rediffmail.com</a> <a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>



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**District:** Kolasib

**Period:** 14 – 18 September, 2016

**Bulletin No:** - 636/2016/ Bulletin/English

**Date of issue:** 13<sup>th</sup> September, 2016

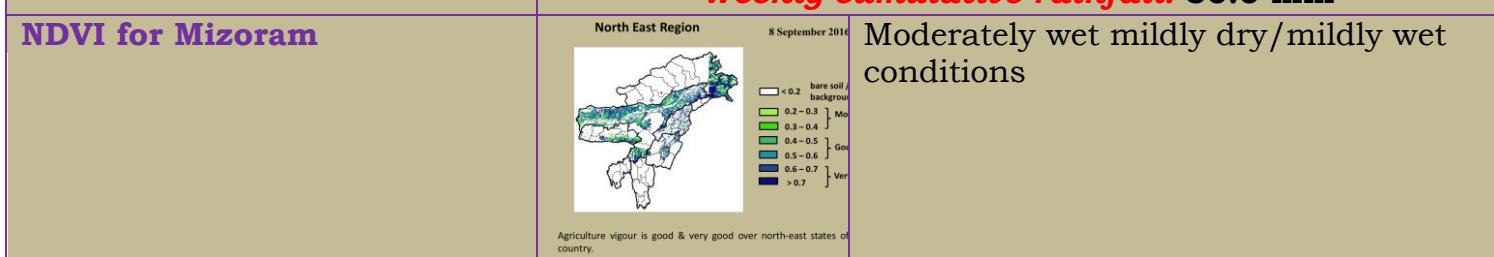
Parameters	14.09.2016	15.09.2016	16.09.2016	17.09.2016	18.09.2016
<b>Rainfall (mm)</b>	5	4	8	7	6
<b>Max Temp (°C)</b>	30	32	32	32	33
<b>Min Temp (°C)</b>	23	24	24	24	24
<b>Cloud Coverage</b>	Mainly cloudy				
<b>Max RH (%)</b>	98	99	100	98	99
<b>Min RH (%)</b>	79	67	78	88	64
<b>Wind Speed (KmPH)</b>	2	2	2	2	2
<b>*Wind Direction</b>	S-E	S-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 14 <sup>th</sup> September, 2016 To 18 <sup>th</sup> September, 2016.
<b>Maximum Tem. (°C):</b> 26-28°C <b>Minimum Tem. (°C):</b> 21-23°C <b>Maximum RH (%):</b> 94-99% <b>Minimum RH (%):</b> 79-91% <b>Wind Direction:</b> southwesterly <b>Cloud cover:</b> Mainly cloudy <b>Wind speed:</b> 3 km/hr  <b>Rainfall:</b> 98.6 mm	<p>There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-33°C and 23-24°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 64-88%. Wind direction would be southeasterly to easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.</p> <p style="text-align: center;"><b>Weekly cumulative rainfall: 30.0 mm</b></p>





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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
<b>Khasi Mandarin and acid lime</b>	<b>Flowering to fruit formation stage</b>	<p style="text-align: center;">KOLASIB MAMIT AIZAWL SERCHHIP</p> <p><b>Fruit fly</b></p>	<ul style="list-style-type: none"> <li>➡ In north-eastern parts of India, Khasi mandarins are very closely spaced (6 m. X 6 m.), accommodating more than 120 plants/ha.</li> <li>➡ Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water for one hectare area).</li> <li>➡ Make a circle near to the plant and apply 25 kg FYM along with 20 g urea and 125 g SSP.</li> <li>➡ Remove all unwanted plants from near the base of the plant.</li> <li>➡ Care should be taken to avoid water stagnation in the bags.</li> </ul>
		<p style="text-align: center;">LUNGLEI LAWNGTLAI SAIHA</p> <p><b>Dia back disease</b></p>	<ul style="list-style-type: none"> <li>➡ 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.</li> </ul>
<b>Passion Fruit</b>	<b>Flowering to Fruit formation stage</b>	<p style="text-align: center;">LUNGLEI LAWNGTLAI SAIHA</p>	<ul style="list-style-type: none"> <li>➡ Remove all infected plant and burn it.</li> <li>➡ Pruning of effected part spraying with carbendazim/Bordeaux mixture 1.0%</li> <li>➡ Clean near the base of the plant.</li> <li>➡ In dry spell apply mulch with grass.</li> <li>➡ Trellises are in the north-south direction to minimize the shades during early morning and late evening.</li> <li>➡ Zinc + Manganese (1.3 kg Zinc sulphate, 900g manganese sulphate, 675g lime, 450 gm urea in 450 lit of water for one hectare area).</li> <li>➡ Apply 100: 50:100g as NPK per plant.</li> </ul>
		<p style="text-align: center;">LUNGLEI LAWNGTLAI SAIHA</p> <p><b>Fruit fly</b></p>	<ul style="list-style-type: none"> <li>➡ Collect and burn all infected plant.</li> <li>➡ 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.</li> </ul>



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Banana	Harvesting stage	KOLASIB	<ul style="list-style-type: none"><li>■ Change of colour from green to yellowish.</li><li>■ Fingers are about three quarters full i.e. 3/4 of fruit is rounded</li><li>■ Ridges should still be prominent on the remaining quarter of the finger.</li><li>■ Harvest bananas when they are swollen and green but before they become ripe (plump and yellow).</li><li>■ Too early (when the bananas are thin and dark green).</li><li>■ Too late (when they are thick and turning yellow).</li></ul>
	MAMIT	Banana Rhizome weevil AIZAWL	<ul style="list-style-type: none"><li>■ 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 1<sup>st</sup> instars predominate which coincides with I Fortnight of July.</li></ul>
	SERCHHIP	Banana panama wilt	<ul style="list-style-type: none"><li>■ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.</li></ul>
	LUNGLEI	Banana beetle	<ul style="list-style-type: none"><li>■ Removal of weeds from basin</li><li>■ Removal of unwanted sucker</li><li>■ Application of alphamethrin @ 0.01%.</li></ul>
Pineapple	Harvest stage	LAWNGTIA SAIHA	<ul style="list-style-type: none"><li>■ A basal golden yellow coloration at the base is the sign of a ripe fruit.</li><li>■ Fresh fruits destined for the local market are plucked when almost ripe.</li><li>■ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit).</li></ul>
		Rat damage	<ul style="list-style-type: none"><li>■ Disturb and destroy the habitat (burrows) of the rodents by practicing clean cultivation.</li><li>■ Minimize the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields.</li><li>■ Apply 2% Zinc phosphide poison baits (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) when the rodent</li></ul>



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			infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.
<b>Oil plam</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>■ Time from flowering to harvesting of ripe fruit is 5-6 months.</li><li>■ Fruit brunch is tightly wedge in the leaf axil of the plam.</li><li>■ Brunch of a mature plam contains 1,000 to 4,000 fruits, depending on the trees agr and vigor.</li><li>■ Bunch weights at maturity 15-25 kg.</li><li>■ The percentage of fruits per bunch is usually 50-60%.</li><li>■ The egg shaped fruits weight 10-20 g.</li><li>■ The pulp around the nut contains the red palm oil.</li><li>■ The kernel in the nut contains oil very similar to coconut oil, but palm oil and palm kernel oil are chemically different.</li></ul>
<b>Colocasia</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"><li>■ Remove unwanted plant near base of the plant and cut dead branches.</li><li>■ Earthing up soil at base of the plant along with split doses of fertilizer.</li><li>■ Proper drainage is required to avoid water logging.</li><li>■ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.</li></ul>
<b>Cucurbitaceo us crop</b>	<b>Harvesting stage</b>		<ul style="list-style-type: none"><li>■ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.</li><li>■ Apply a dose of 100:200:100 gm NPK/plant throughout the cropping period through split application</li><li>■ Weeding can be done by hoeing as and when necessary.</li><li>■ Fruit rot during rainy season can be checked by training the plants over the bamboo stick or dried branches.</li><li>■ Harvest all mature fruit.</li><li>■ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension</li></ul>



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			containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
<b>Okra</b>	<b>Harvesting stage</b>	KOLASIB	<ul style="list-style-type: none"><li>■ Harvest all mature fruit.</li><li>■ Keep over mature fruit for seed production.</li><li>■ Keep dry fruits in sun for drying and store for next year</li></ul>
		Okra leafroller	<ul style="list-style-type: none"><li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
<b>Cowpea</b>	<b>Fruit initiation to harvest</b>	AIZAWL	<ul style="list-style-type: none"><li>■ Remove unwanted plant near base of the plant and cut dead branches.</li><li>■ Earthing up soil at base of the plant along with split doses of fertilizer.</li><li>■ Proper drainage is required to avoid water logging.</li><li>■ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.</li><li>■ Harvest all mature fruit.</li></ul>
<b>Brinjal</b>	<b>Harvesting stage</b>	SERCHHIP	<ul style="list-style-type: none"><li>■ Harvest all mature fruit.</li><li>■ Keep over mature fruit for seed production.</li><li>■ Extract seeds from full ripened or over matured fruit.</li><li>■ Keep extracted for sun dry and keep for next year.</li></ul>
		HUINGLI	<ul style="list-style-type: none"><li>■ Collect and destroy infected parts of the plant.</li><li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li></ul>
		SAIHA	<ul style="list-style-type: none"><li>■ Apply contact insecticide like Acephate (Orthene), carbaryl (Sevin), fipronil (Over 'N Out), pyrethrins @ 1 to 1.5 ml/lt of water.</li></ul>
<b>Tomato</b>	<b>Nursery stage</b>	Land preparation	<ul style="list-style-type: none"><li>■ Nursery preparation for tomato.</li><li>■ Raised bed, nursery bed solarisation.</li><li>■ Bed should be 1m width and conventional length.</li><li>■ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li><li>■ Line sowing of seeds (7-10cm)</li></ul>



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		<b>Damping off</b>	<ul style="list-style-type: none"> <li>➡ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>➡ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
<b>Ginger and turmeric</b>	<b>Vegetative stage</b>	 <b>KOLASIB</b> <b>MAMIT</b> <b>AIZAWL</b> <b>SERCHHIP</b> <b>LUNGLEI</b> <b>LAWNGTLAI</b> <b>SAIHA</b>	<ul style="list-style-type: none"> <li>➡ Remove unwanted plant near base of the plant and cut dead branches.</li> <li>➡ 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.</li> <li>➡ Earthing up of soil along with fertilizer mixture.</li> </ul>
		<b>Turmeric shoot borer</b>	<ul style="list-style-type: none"> <li>➡ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> </ul>
<b>Pre kharif Rice</b>	<b>Panicle Emergence stage</b>	 <b>KOLASIB</b> <b>AIZAWL</b> <b>MAMIT</b> <b>SERCHHIP</b> <b>LUNGLEI</b> <b>LAWNGTLAI</b> <b>SAIHA</b>	<ul style="list-style-type: none"> <li>➡ Remove unwanted plant by hand weeding.</li> <li>➡ Apply split dose of fertilizer.</li> <li>➡ Proper drainage is required to avoid water logging</li> </ul>
		<b>Rice yellow stem borer</b>	<ul style="list-style-type: none"> <li>➡ Cut leaf tip from the seedling.</li> <li>➡ Collect and destroy infected parts of the plant.</li> <li>➡ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> </ul>
		<b>Rice leafroller</b>	<ul style="list-style-type: none"> <li>➡ Stop indiscriminate use of fertilizer.</li> <li>➡ Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage and 2 ml/lt of water for heavy damage.</li> </ul>
<b>Kharif Maize</b>	<b>Harvesting stage</b>	 <b>KOLASIB</b> <b>AIZAWL</b> <b>MAMIT</b> <b>SERCHHIP</b> <b>LUNGLEI</b> <b>LAWNGTLAI</b> <b>SAIHA</b>	<ul style="list-style-type: none"> <li>➡ Harvest all mature cobs.</li> <li>➡ Keep all mature cobs for sun dry.</li> <li>➡ After sundry hang all cobs in smoke for reduce maize weevil attack.</li> </ul>
<b>Soybean</b>	<b>Sowing</b>	<b>Zero tillage</b>	<ul style="list-style-type: none"> <li>➡ Clean all debris from the jhum field.</li> <li>➡ Open the furrow with of dao or dibbler</li> </ul>



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			<p>or khurpee.</p> <ul style="list-style-type: none"> <li>■ Put recommended fertilizer dose and mix with soil.</li> <li>■ Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.</li> </ul>
<b>Kharif pulses (Green gram, Black gram and Rajma)</b>	<b>Harvesting stage</b>	<b>KOLASIB</b>	<ul style="list-style-type: none"> <li>■ Harvest all mature pods.</li> <li>■ Keep all mature pods for sun dry.</li> </ul>
		<b>Aphid and bug</b>	<ul style="list-style-type: none"> <li>■ Manually collect and destroy the insect.</li> <li>■ Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Pig disease</b>	<ul style="list-style-type: none"> <li>■ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea.once the symptom are noticed, call veterinarian doctor.</li> </ul>
		<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	<ol style="list-style-type: none"> <li>1. Culling of positive pigs or piglets.</li> </ol>
	<b>Adult stage</b>	<b>Swine fever.</b>	<ol style="list-style-type: none"> <li>2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval</li> </ol>
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"> <li>• FMD vaccine at 16 week and repeat every 6 month.</li> </ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQV).</li> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul>
<b>Poultry</b>	<b>Litter management</b>	<b>LAWNGTLAI SAIHA</b>	<ul style="list-style-type: none"> <li>■ Maintain light 12-14 hrs in brooder house.</li> <li>■ The litter should be 7.5- 10 cm deep.</li> <li>■ Saw dust, paddy husk or ground nut hulls can be used as litter.</li> <li>■ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.</li> </ul>



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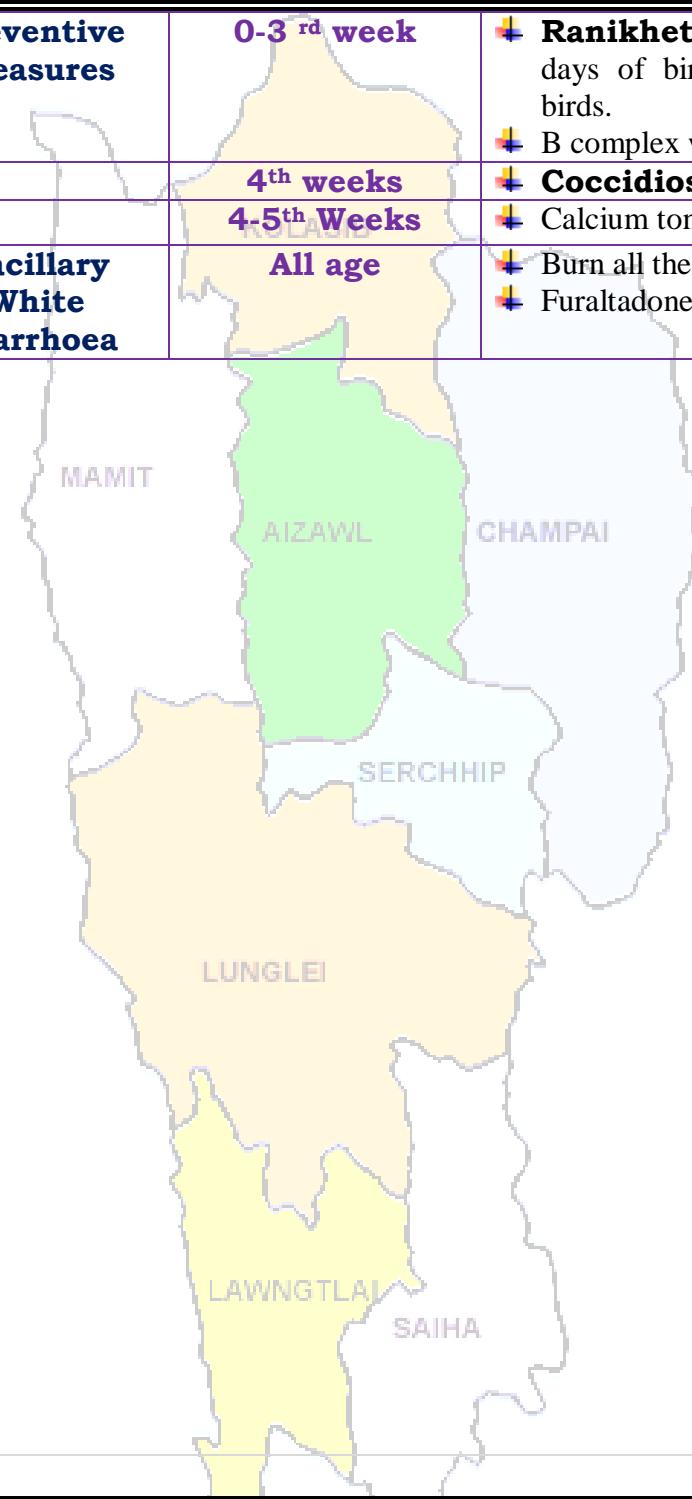
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	<b>Preventive measures</b>	<b>0-3<sup>rd</sup> week</b>	<ul style="list-style-type: none"><li>✚ <b>Ranikhet Disease-</b> F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li><li>✚ B complex with antibodies</li></ul>
		<b>4<sup>th</sup> weeks</b>	<ul style="list-style-type: none"><li>✚ <b>Coccidiosis-</b> Amprolium or coccidiostat</li><li>✚ Calcium tonic fortified with B<sub>12</sub></li></ul>
		<b>4-5<sup>th</sup> Weeks</b>	<ul style="list-style-type: none"><li>✚ Burn all the dead birds.</li><li>✚ Furaltadone@ 0.5 g/litre of water for 7 days.</li></ul>
	<b>Bacillary White Diarrhoea</b>	<b>All age</b>	





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### Expert committee members:

<b>Dr. S.B. Singh</b>	:	Joint Director	<a href="mailto:basantasinghsoibam@rediffmail.com">basantasinghsoibam@rediffmail.com</a>
<b>Dr. Saurav Saha</b>	:	Scientist (Agril. Physics)	<a href="mailto:sauravs.saha@gmail.com">sauravs.saha@gmail.com</a>
<b>Dr. T. Boopathi</b>	:	Scientist (Agril Entomology)	<a href="mailto:boopathiars@gmail.com">boopathiars@gmail.com</a>
<b>Dr. Sudip Kumar Dutta</b>	:	Scientist (Hort.)	<a href="mailto:sudipiari@rediffmail.com">sudipiari@rediffmail.com</a>
<b>Dr. A. Ratankumar Singh</b>	:	Scientist (Plant Pathology)	<a href="mailto:ratanplantpatho@gmail.com">ratanplantpatho@gmail.com</a>
<b>Dr. L. H. Puii</b>	:	Scientist (Vet. Microbiology)	<a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>
<b>Dr. Lungmuana</b>	:	Scientist (Soil Fertility)	<a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>
<b>Dr. M. Thoithoi Devi</b>	:	Scientist (Agronomy)	<a href="mailto:thoigri@gmail.com">thoigri@gmail.com</a>
<b>Mr. Samik Chowdhury</b>	:	Technical Officer	<a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>
<b>Mr. Evans Syiem</b>	:	Meteorological Observer	<a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>
<b>Mr. Vanthawmliana</b>	:	Senior Research Fellow (Mizo language Translator)	<a href="mailto:Tom_tom79@yahoo.in">Tom_tom79@yahoo.in</a>
<b>Mrs. Monika Bora</b>	:	Meteorological Observer (IMD)	<a href="mailto:boramonika@rediffmail.com">boramonika@rediffmail.com</a>

### Collaborating Department:

Name of the KVK	Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
<b>KVK Lunglei</b>	: <b>Dr. Lalmuanzovi</b> Head & Sr. Scientist	<a href="mailto:kvhnahthial@gmail.com">kvhnahthial@gmail.com</a>	9862803750 9436154614
<b>KVK, Kolasib</b>	: <b>Mr. Lalrosamga Khiangte</b> Head & Sr. Scientist	<a href="mailto:kvkkolasib@gmail.com">kvkkolasib@gmail.com</a>	9436152440
<b>KVK, Serchhip</b>	: <b>Mr. K. Laltlanmawia</b> Head & Sr. Scientist	<a href="mailto:kvkserchhip@gmail.com">kvkserchhip@gmail.com</a>	9436146115 9615389293
<b>KVK, Champhai</b>	: <b>Mrs. Lalrinawmi Renthlei</b> Head & Sr. Scientist	<a href="mailto:kvkkhawzawl@gmail.com">kvkkhawzawl@gmail.com</a>	9436159788
<b>KVK, Lawngtlai</b>	: <b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	<a href="mailto:kvklawntlai@gmail.com">kvklawntlai@gmail.com</a>	9436155858
<b>KVK, Saiha</b>	: <b>Dr. Vanlahruaia Hnampe</b> Head & Sr. Scientist	<a href="mailto:kvksaiha@gmail.com">kvksaiha@gmail.com</a>	8974656509
<b>KVK, Mamit</b>	: <b>Dr. Samuel Lalliansanga</b> Head & Sr. Scientist	<a href="mailto:kvkmamit@gmail.com">kvkmamit@gmail.com</a>	9436147625
<b>KVK, Aizawl</b>	: <b>Dr. K. P. Chaudhary</b> Head & Sr. Scientist	<a href="mailto:Kpchy@rediffmail.com">Kpchy@rediffmail.com</a> <a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>	9436351669