



# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Lunglei

**Period:** 22 October – 26 October, 2016

**Bulletin No:** - 647/2016/ Bulletin/Mizo

**Date of issue:** 21<sup>st</sup> October, 2016

| Parameters        | 22.10.2016 | 23.10.2016   | 24.10.2016 | 25.10.2016 | 26.10.2016 |
|-------------------|------------|--------------|------------|------------|------------|
| Rainfall (mm)     | 0          | 0            | 0          | 0          | 0          |
| Max Temp (°C)     | 27         | 27           | 27         | 26         | 26         |
| Min Temp (°C)     | 15         | 15           | 15         | 14         | 14         |
| Cloud Coverage    | Clear sky  | Mainly clear | Clear sky  | Clear sky  | Clear sky  |
| Max RH (%)        | 99         | 99           | 98         | 99         | 99         |
| Min RH (%)        | 44         | 38           | 35         | 40         | 46         |
| Wind Speed (Kmph) | 3          | 4            | 3          | 2          | 2          |
| *Wind Direction   | N-E        | N-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)**

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

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

**22<sup>nd</sup> October– 26<sup>th</sup> October, 2016 chhunga sik leh sa dinhmun tur tlangpui**

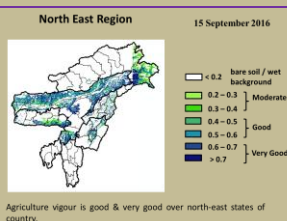
**Maximum Tem. (°C): 28-30°C**  
**Minimum Tem. (°C): 14-17°C**  
**Maximum RH (%):98-100%**  
**Minimum RH (%):46-64%**  
**Wind Direction: Southerly**  
**Cloud cover: Mainly cloudy**  
**Wind Speed: 2km/hr**

Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 26-27°C a ni ang a. A vawh lai berin 14-15°C ni tura beisei a ni. RH san lai berin of 98-99% leh a hniam lai berin 38-46% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam hawi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.

**Rainfall: 00.0 mm**

**Weekly cumulative rainfall: 00.0mm**

**NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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| Thlai/ ran /sangha           | Spat zawng                 | Hmalakna tur/ rannung leh natna hrik awm thei te | Agricultural/Horticultural/ animal husbandry atana thurawn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------|----------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Khasi Mandarin and acid lime | Phun sawn (transplant) hun |                                                  | <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 tuiah chiaah tur a ni a, A tukah Lei hnawng awmna pot (moist pot) ah ½ inch vela thukah tuh tur a ni. Pot chu plastic bag emaw, sarangin emaw tuam a, Ni zung hmuh thatna leh hmun lumah a rawn to chhuah hma chu dah tur a ni. Chumi zawhah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.</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>vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          |                  | <p><b>Citrus leafminior and butterfly</b></p> <p>KOLASIB</p>            | <p>✚ 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).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Oil Palm | A tet lai        | <p>MAMIT</p> <p>AIZAWL</p> <p>CHAMPA</p> <p>SERCHHIP</p> <p>LUNGLEI</p> | <p>✚ Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni.</p> <p>✚ Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzatz theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni.</p> <p>✚ Oil palm tiak chu 2.5cm vela thuk in phum tur.</p> <p>✚ Nitin tui pek tur.</p> <p>✚ A tiak pakhat tan leitha SSP, MOP leh <math>Mg_2SO_4</math> 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.</p> <p>✚ A vawikhat naah khian a kung atanga 6-8cm a hlaah pek tur a ni a, a vawihnihaah 10-12cm a hla, vawithumnaah 15-20cm a hla ah pek tur a ni.</p> <p>✚ Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.</p> |
|          | Par a chhuah hma | <p>LAWNGTLAI</p> <p>SAIHA</p>                                           | <p>✚ A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni.</p> <p>✚ Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni.</p> <p>✚ 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.</p>                                                                                                                                                                                                                                                                                                                                                                                                              |



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|         |                 |                          |                                                                                                                                                                                                                                                                                                                                                                      |
|---------|-----------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                 |                          | <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>                                                                                                                                                                                                                              |
| Balhla  | A par lai       |                          | <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> |
|         |                 | Banana Rhizome weevil    | <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 paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.</li> </ul>                                                                                                                                                             |
|         | A hmin hun      |                          | <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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|             |                  |                                                        |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                  | KOLASIB                                                | <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> |
|             | Par a chhuah hma | MAMIT<br>AIZAWL<br>CHAMPAI                             | <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>                                                     |
|             |                  | Aphid<br>SERCHHIP                                      | <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 | A seng hunlai    | LUNGLEI                                                | <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 hralh 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>                |
|             |                  | Rat damage (Sazu in a tihchhiat)<br>LAWNGTLAI<br>SAIHA | <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   | Par a chhuah hma |                                                        | <ul style="list-style-type: none"> <li>A bul vel tihfai that a, a zar tangkai lo ho paih tur.</li> </ul>                                                                                                                                                                                                                                                        |



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|                      |                                   |                 |                                                                                                                                                                                                                                                                                                                                |
|----------------------|-----------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                                   | KOLASIB         | <ul style="list-style-type: none"> <li>A zung bul rih vur a leitha vawihnih pek tur.</li> <li>Tui tling tur vennis tui hawk luankawr mumal tak siam tur.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> </ul>                                          |
|                      |                                   | Corm borer      | <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>                                                                                                                                    |
| Cucurbitaceous crops | A seng hun                        | AIZAWL CHAMPAI  | <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 hnim thlawh 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> |
|                      |                                   | Fruit fly       | <ul style="list-style-type: none"> <li>Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.</li> </ul>                                                                                                                                                                                                      |
| Bawrh Saiabe         | A par hma deuh atang a par thleng | LUNGLEI         | <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>         |
|                      |                                   | Okra leafroller | <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>                                                                                                                                     |
| Behlawi              | Rah a chhuah tan                  | LAWNGTLAI SAIHA | <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 paih tur.</p> <ul style="list-style-type: none"> <li>A zung bul rih vur a leitha vawihnih pek tur.</li> <li>Tui tling tur vennis tui hawk luankawr mumal tak siam tur.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah baw a ni.</li> <li>A rah puitling apiang seng zel tur.</li> </ul>                                                                                                                               |
| <b>Bawkbawn</b>                            | <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 paih tur.</li> <li>Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnim to tam tur a veng.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, thlai thang a tichak baw.</li> <li>Ram Hactare khata zauah leitha Urea 50kg hi hmun hnihah thenin vawihnih phul tur a ni.</li> <li>A rah puitling apiang seng zel tur.</li> </ul> |
|                                            |                                                |  | <p><b>Shoot and fruit borer (thlai kung leh a rah bawm chi ranning)</b></p> <ul style="list-style-type: none"> <li>Natna in a tihchhiat tawh thlai peng lakthlak a paih tur.</li> <li>Ranning hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.</li> </ul>                                                                                                                                                      |
|                                            |                                                |  | <p><b>Brinjal leaf beetle</b></p> <ul style="list-style-type: none"> <li>Ranning thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.</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> </ul>                                                                                                                                                                                                                                                                                                                 |



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|--------------------------------------|----------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      |                                                          |                                              | <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>                                                                                                                                                                            |
| <b>Kharif rice</b>                   | <b>A peng insiamtur zawng zawng insiam zawh hnu lawk</b> | KOLASIB                                      | <ul style="list-style-type: none"> <li>A bul vela hnim 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>                                                                                                                                         |
| <b>Pre Kharif Rice</b>               | <b>A vui inseam tan lai</b>                              | MAMIT                                        | <ul style="list-style-type: none"> <li>A bul vela hnim 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 paih 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>                                                                                          |
| <b>Vaimim fur hma a seng chi</b>     | <b>A seng hun</b>                                        | SERCHHIP                                     | <ul style="list-style-type: none"> <li>A rah zawng zawng seng vek tur.</li> <li>Keh hun zawng ni saah phoro tur.</li> <li>Vaimim chi chu rapah rep tur.</li> </ul>                                                                                                                                                                                            |
| <b>Vaimim fur hma hreta seng chi</b> | <b>A kung puitlin hun</b>                                | LUNGLEI                                      | <ul style="list-style-type: none"> <li>A kung bul vela hnim vel tihfai that tur.</li> <li>Leitha nena rihvur tur.</li> <li>Leitha vawi hnih 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>                                                                                                                                                                                                                |
| <b>Sawhthing leh Aieng</b>           | <b>Par a chhuah hma</b>                                  | LAWNGTLAI SAIHA                              | <ul style="list-style-type: none"> <li>Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha<sup>-1</sup> Metolachlor (Dual) @1.5-2.0 kg a.i ha<sup>-1</sup>, Pendimethalin (Stomp)</li> </ul> |



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|                                                         |                                                |                                                            |                                                                                                                                                                                                                          |
|---------------------------------------------------------|------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                         |                                                |                                                            | @ 1-1.5kg a.i ha <sup>-1</sup> te hian hnimhnah lian lampang chi a veng a ni.                                                                                                                                            |
|                                                         |                                                | <b>Turmeric shoot borer (Aieng kung ei chhetu rannung)</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 lakkhawm a halral tur.</li> </ul>                  |
|                                                         |                                                | <b>Aphid and bug</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>   | 1. A natna vei vawk te chu thah a phum tur a ni.                                                                                                                                                                         |
|                                                         | <b>A puitling hun</b>                          | <b>Swine fever.</b>                                        | 2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur                                                                                                            |
| <b>Bawng</b>                                            | <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> |
| <b>Ar</b>                                               | <b>Kumtluanin</b>                              | <b>Ranikhet Disease.</b>                                   | 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.                                                                                                       |
|                                                         |                                                | <b>Coccidiosis</b>                                         | 2. Amprolium emaw coccidiostat pek tur.                                                                                                                                                                                  |



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



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**District:** Mamit

**Period:** 22 October – 26 October, 2016

**Bulletin No:** - 647/2016/ Bulletin/English

**Date of issue:** 21<sup>st</sup> October, 2016

| Parameters               | 22.10.2016 | 23.10.2016   | 24.10.2016 | 25.10.2016 | 26.10.2016 |
|--------------------------|------------|--------------|------------|------------|------------|
| <b>Rainfall (mm)</b>     | 0          | 0            | 0          | 0          | 0          |
| <b>Max Temp (°C)</b>     | 25         | 25           | 25         | 24         | 24         |
| <b>Min Temp (°C)</b>     | 16         | 16           | 16         | 15         | 15         |
| <b>Cloud Coverage</b>    | Clear sky  | Mainly clear | Clear sky  | Clear sky  | Clear sky  |
| <b>Max RH (%)</b>        | 100        | 99           | 99         | 100        | 100        |
| <b>Min RH (%)</b>        | 46         | 41           | 37         | 41         | 45         |
| <b>Wind Speed (Kmph)</b> | 2          | 2            | 2          | 2          | 2          |
| <b>*Wind Direction</b>   | 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</b><br>(430.2mm)   | <b>Champhai- 105.48mm</b><br>(359.89mm) | <b>Saiha- 307.40 mm</b><br>(507.7mm) | <b>Kolasib- 236.00mm</b><br>(428.1mm)  |
| <b>Lawngtlai-291.20mm</b><br>(453.1mm) | <b>Lunglei-326.00mm</b><br>(465.14mm)   | <b>Mamit-204.87mm</b><br>(442.80mm)  | <b>Serchhip-411.72mm</b><br>(259.62mm) |

**Weather summary of the past three days**

**Maximum Tem. (°C):30-31°C**  
**Minimum Tem. (°C):19-22°C**  
**Maximum RH (%):98-99%**  
**Minimum RH (%):46-63%**  
**Wind Direction: Southeasterly**  
**Cloud cover: Mainly cloudy**  
**Wind speed: 2 km/hr**

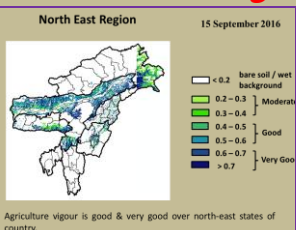
**Rainfall: 00.0 mm**

**Weather forecast valid from 22<sup>nd</sup> October, 2016 To 26<sup>th</sup> October, 2016.**

There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 24-25°C and 15-16°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 37-46%. Wind direction would be easterly to southeasterly with the wind speed of 2 km per hour. Mainly clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

**NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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| Main Crop/<br>Animal<br>/ Fisheries         | Stage                       | Cultural<br>practices/ Pest/<br>Diseases | Agricultural / Horticultural/ animal<br>husbandry advisories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|-----------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Khasi<br/>Mandarin and<br/>acid lime</b> | <b>Harvesting<br/>stage</b> | <p>KOLASIB<br/>MAMIT<br/>AIZAWL</p>      | <ul style="list-style-type: none"> <li>Orange is picked when colour turn to dark green to pale yellow.</li> <li>Mandarins and sweet oranges normally take 240-280 days to arrive at maturity.</li> <li>Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days.</li> <li>Limes and lemons take 150-160 days for maturity.</li> <li>There may be 2 or 3 crops in a year in limes and lemons.</li> <li>The cold storage conditions for long term storage for different citrus fruits are available.</li> <li>Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.</li> </ul> |
|                                             |                             | <b>Fruit fly</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 jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Passion Fruit</b>                        | <b>Harvesting<br/>stage</b> | <p>LUNGLEI<br/>LAWNGTLAI<br/>SAITAI</p>  | <ul style="list-style-type: none"> <li>The vines start yielding fruits after 10 months of planting and bearing reaches optimum by 16-18 months.</li> <li>There are two main periods of fruiting from August to December and March to May.</li> <li>Fruits take 80-85 days to reach maturity.</li> <li>Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.</li> <li>The fruits should be marketed quickly to prevent loss in weight and their appearance.</li> <li>The rind becomes wrinkled on drying</li> </ul>                                                               |



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|                 |                         |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|-------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                         |                              | but the pulp remains in good condition for several days.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                 |                         | <b>Fruit fly</b>             | <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 jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> </ul>                                                                                                                                                                                                          |
| <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> |
|                 |                         | <b>Banana Rhizome weevil</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 /l 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>Oil plam</b> | <b>Fruiting stage</b>   |                              | <p><b>Ablation:</b></p> <ul style="list-style-type: none"> <li>Ablation is the removal of male and female flowers produced in the early stages of plantation.</li> <li>This enables the plant to gain adequate stem girth, vigour and develop adequate root system. Flowering starts from 14<sup>th</sup> to 18<sup>th</sup> month after planting.</li> <li>Start ablation immediately after the</li> </ul>                                                                                   |



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|                  |                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------|-------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                         |  | <p>appearance of inflorescences on the palms.</p> <ul style="list-style-type: none"> <li>They can be removed easily by hand pulling or using the tool developed at DOPR.</li> <li>Ablation can be extended up to 2-1/2 to 3 years depending upon the plant growth and vigour.</li> </ul> <p><b>Pollination:</b></p> <ul style="list-style-type: none"> <li>Wind and insects assist pollination, but wind pollination is not adequate.</li> <li>Effective pollinating insects like <i>Elaeidobius kamerunicus</i> helps in good pollination and fruit set.</li> <li>Release of this weevil after 2-1/2 year of planting is advisable.</li> <li>If the plants are not having good girth and vigour, release the weevils after 3 years.</li> </ul> |
| <b>Colocasia</b> | <b>Harvesting stage</b> |  | <ul style="list-style-type: none"> <li>Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.</li> <li>Crop will be ready for harvest in 6-8 months after planting.</li> <li>One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.</li> <li>After this, irrigation has to be withheld to hasten maturity.</li> <li>Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.</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 ripped or over matured fruit.</li> <li>Keep extracted for sun dry and keep for next</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



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|                            |                                     |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|-------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                                     | <b>Shoot and fruit borer</b> | <ul style="list-style-type: none"> <li>year.</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/lit of water.</li> </ul>                                                                                                                                                                                                                                                                     |
| <b>Tomato</b>              | <b>Nursery stage</b>                | <b>Land preparation</b>      | <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>                                                                                                                                                                                                                         |
|                            |                                     | <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 mixture.</li> </ul> |
|                            |                                     | <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/lit of water.</li> </ul>                                                                                                                                                                                                                                                                                                                                              |
| <b>Kharif Rice</b>         | <b>Physiological maturity stage</b> |                              | <ul style="list-style-type: none"> <li>Colour turns to green to light gold.</li> <li>Make drains corner side of the plot</li> <li>Drain out stagnant water to create stress for early maturity.</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</li> </ul>                                                                                                                                                                                                                                                                            |



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|                                                                               |                         |                               |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------|-------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                               |                         |                               | and crop residues in/ around the fields.<br>✚ 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.                                                                                                                 |
|                                                                               |                         | <b>Bird damage</b>            | ✚ Pyrotechnics include a wide variety of noise-producing cartridges usually fired from rockets or rope bangers, or on aerodromes from modified pistols or shotguns, which produce a loud bang and emit flashes of light.<br>✚ Balloons tethered in a crop are an inexpensive method of bird deterrence.<br>✚ Kites and kite-hawks work as mobile predator models, which birds perceive as a threat. |
|                                                                               |                         | <b>Rice yellow stem borer</b> | ✚ Cut leaf tip from the seedling.<br>✚ Collect and destroy infected parts of the plant.<br>✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.                                                                                                                                                                                      |
| <b>Soybean</b>                                                                | <b>Vegetative stage</b> | <b>Zero tillage</b>           | ✚ Clear base of the plant.<br>✚ Earthing up soil near to plant for better support.                                                                                                                                                                                                                                                                                                                  |
| <b>Green gram, black gram and French bean (After Pre kharif rice harvest)</b> | <b>Vegetative stage</b> | <b>Zero tillage</b>           | ✚ Clear base of the plant.<br>✚ Earthing up soil near to plant for better support.<br>✚ For French bean use bamboo for staking or support.<br>✚ Use split dose of fertilizer for better fruiting for French bean.                                                                                                                                                                                   |
| <b>Pig</b>                                                                    | <b>All stages</b>       | <b>Pig disease</b>            | ✚ 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.                                                                                                                                                                                                 |
|                                                                               |                         | <b>Porcine Reproductive</b>   | 1. Culling of positive pigs or piglets.                                                                                                                                                                                                                                                                                                                                                             |



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|                |                                  |                                     |                                                                                                                                                                                                                                                                                                               |
|----------------|----------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |                                  | <b>Respiratory Syndrome (PRRS).</b> |                                                                                                                                                                                                                                                                                                               |
|                | <b>Adult stage</b>               | <b>Swine fever.</b>                 | 2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval                                                                                                                                                                                                                      |
| <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>         |                                     | <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>       | <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>         | ✚ <b>Coccidiosis-</b> Amprolium or coccidiostat                                                                                                                                                                                                                                                               |
|                |                                  | <b>4-5<sup>th</sup> Weeks</b>       | ✚ Calcium tonic fortified with B <sub>12</sub>                                                                                                                                                                                                                                                                |
|                | <b>Bacillary White Diarrhoea</b> | <b>All age</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>                                                                                                                                                                         |



# 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)



## Expert committee members:

|                                |   |                                                   |                                                                                          |
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## Collaborating Department:

| Name of the KVK       | Programme Coordinator Name and Designation              | KVK Email Id                                                                                                                             | Phone no/ Mobile no      |
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# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Mamit

**Period:** 22 October – 26 October, 2016

**Bulletin No:** - 647/2016/ Bulletin/Mizo

**Date of issue:** 21<sup>st</sup> October, 2016

| Parameters        | 22.10.2016 | 23.10.2016   | 24.10.2016 | 25.10.2016 | 26.10.2016 |
|-------------------|------------|--------------|------------|------------|------------|
| Rainfall (mm)     | 0          | 0            | 0          | 0          | 0          |
| Max Temp (°C)     | 25         | 25           | 25         | 24         | 24         |
| Min Temp (°C)     | 26         | 16           | 16         | 15         | 15         |
| Cloud Coverage    | Clear sky  | Mainly clear | Clear sky  | Clear sky  | Clear sky  |
| Max RH (%)        | 100        | 99           | 99         | 100        | 100        |
| Min RH (%)        | 46         | 41           | 37         | 41         | 45         |
| Wind Speed (Kmph) | 2          | 2            | 2          | 2          | 2          |
| *Wind Direction   | 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)**

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

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

**22<sup>nd</sup> October– 26<sup>th</sup> October, 2016 chhunga sik leh sa dinhmun tur tlangpui**

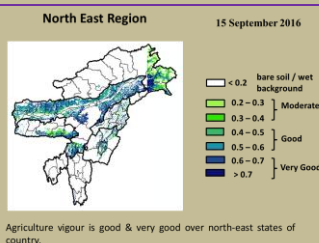
**Maximum Tem. (°C):30-31°C**  
**Minimum Tem. (°C):19-22°C**  
**Maximum RH (%):98-99%**  
**Minimum RH (%):46-63%**  
**Wind Direction: Southeasterly**  
**Cloud cover: Mainly cloudy**  
**Wind speed: 2 km/hr**

Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 24-25°C a ni ang a. A vawh lai berin 15-16°C ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 37-46% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam hawi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.

**Rainfall: 00.0 mm**

**Weekly cumulative rainfall: 00.0mm**

**NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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| Thlai/ ran /sangha           | Spat zawng                 | Hmalakna tur/ rannung leh natna hrik awm thei te | Agricultural/Horticultural/ animal husbandry atana thurawn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------|----------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Khasi Mandarin and acid lime | Phun sawn (transplant) hun |                                                  | <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 tuiah chiaah tur a ni a, A tukah Lei hnawng awmna pot (moist pot) ah ½ inch vela thukah tuh tur a ni. Pot chu plastic bag emaw, sarangin emaw tuam a, Ni zung hmuh thatna leh hmun lumah a rawn to chhuah hma chu dah tur a ni. Chumi zawhah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.</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 leafminior and butterfly</b><br> | <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 <math>Mg_2SO_4</math> 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 hniah 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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|         |                 |  |                                                                                                                                                                                                                                                                                                                                                                      |
|---------|-----------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                 |  | <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>                                                                                                                                                                                                                              |
| Balhla  | A par lai       |  | <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> |
|         |                 |  | <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>                                                                                               |
|         |                 |  | <ul style="list-style-type: none"> <li>Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.</li> </ul>                                                                                                                                                             |
|         | A hmin hun      |  | <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>                                                                                                             |
|         |                 |  | <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>                                                                                                                                                         |
|         |                 |  | <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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|             |                  |                                                        |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                  | KOLASIB                                                | <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> |
|             | Par a chhuah hma | MAMIT<br>AIZAWL<br>CHAMPAI                             | <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>                                                     |
|             |                  | Aphid<br>SERCHHIP                                      | <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 | A seng hunlai    | LUNGLEI                                                | <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 hralh 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>                |
|             |                  | Rat damage (Sazu in a tihchhiat)<br>LAWNGTLAI<br>SAIHA | <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   | Par a chhuah hma |                                                        | <ul style="list-style-type: none"> <li>A bul vel tihfai that a, a zar tangkai lo ho paih tur.</li> </ul>                                                                                                                                                                                                                                                        |



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|                      |                                   |                 |                                                                                                                                                                                                                                                                                                                                |
|----------------------|-----------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                                   | KOLASIB         | <ul style="list-style-type: none"> <li>A zung bul rih vur a leitha vawihnih pek tur.</li> <li>Tui tling tur vennis tui hawk luankawr mumal tak siam tur.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> </ul>                                          |
|                      |                                   | Corm borer      | <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>                                                                                                                                    |
| Cucurbitaceous crops | A seng hun                        | AIZAWL CHAMPAI  | <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 hnim thlawh 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> |
|                      |                                   | Fruit fly       | <ul style="list-style-type: none"> <li>Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.</li> </ul>                                                                                                                                                                                                      |
| Bawrh Saiabe         | A par hma deuh atang a par thleng | LUNGLEI         | <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>         |
|                      |                                   | Okra leafroller | <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>                                                                                                                                     |
| Behlawi              | Rah a chhuah tan                  | LAWNGTLAI SAIHA | <ul style="list-style-type: none"> <li>A bul vel tihfai that a, a zar</li> </ul>                                                                                                                                                                                                                                               |

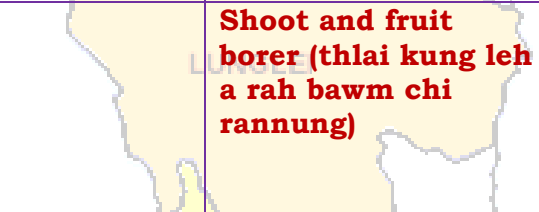


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|                                            |                                                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | <b>atanga seng hun thleng</b>                  |    | <p>tangkai lo ho paih 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 hnim 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>Bawkbawn</b>                            | <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 paih tur.</li> <li>Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnim to tam tur a veng.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, thlai thang a tichak bawk.</li> <li>Ram Hactare khata zauah leitha Urea 50kg hi hmun hnihah thenin vawihnih phul tur a ni.</li> <li>A rah puitling apiang seng zel tur.</li> </ul> |
|                                            |                                                |  | <p><b>Shoot and fruit borer (thlai kung leh a rah bawm chi rannung)</b></p> <ul style="list-style-type: none"> <li>Natna in a tihchhiat tawh thlai peng lakthlak a paih 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>                                                                                                                                                       |
|                                            |                                                |  | <p><b>Brinjal leaf beetle</b></p> <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>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> </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)



|                                      |                                                          |                                              |                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------|----------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      |                                                          |                                              | <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>                                                                                                                                                                            |
| <b>Kharif rice</b>                   | <b>A peng insiamtur zawng zawng insiam zawh hnu lawk</b> | KOLASIB                                      | <ul style="list-style-type: none"> <li>A bul vela hnim 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>                                                                                                                                         |
| <b>Pre Kharif Rice</b>               | <b>A vui inseam tan lai</b>                              | MAMIT                                        | <ul style="list-style-type: none"> <li>A bul vela hnim 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 paih 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>                                                                                          |
| <b>Vaimim fur hma a seng chi</b>     | <b>A seng hun</b>                                        | SERCHHIP                                     | <ul style="list-style-type: none"> <li>A rah zawng zawng seng vek tur.</li> <li>Keh hun zawng ni saah phoro tur.</li> <li>Vaimim chi chu rapah rep tur.</li> </ul>                                                                                                                                                                                            |
| <b>Vaimim fur hma hreta seng chi</b> | <b>A kung puitlin hun</b>                                | LUNGLEI                                      | <ul style="list-style-type: none"> <li>A kung bul vela hnim vel tihfai that tur.</li> <li>Leitha nena rihvur tur.</li> <li>Leitha vawi hnih 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>                                                                                                                                                                                                                |
| <b>Sawhthing leh Aieng</b>           | <b>Par a chhuah hma</b>                                  | LAWNGTLAI SAIHA                              | <ul style="list-style-type: none"> <li>Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha<sup>-1</sup> Metolachlor (Dual) @1.5-2.0 kg a.i ha<sup>-1</sup>, Pendimethalin (Stomp)</li> </ul> |



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|                                                         |                                                |                                                            |                                                                                                                                                                                                                          |
|---------------------------------------------------------|------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                         |                                                |                                                            | @ 1-1.5kg a.i ha <sup>-1</sup> te hian hnimhnah lian lampang chi a veng a ni.                                                                                                                                            |
|                                                         |                                                | <b>Turmeric shoot borer (Aieng kung ei chhetu rannung)</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 lakkhawm a halral tur.</li> </ul>                  |
|                                                         |                                                | <b>Aphid and bug</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>   | 1. A natna vei vawk te chu thah a phum tur a ni.                                                                                                                                                                         |
|                                                         | <b>A puitling hun</b>                          | <b>Swine fever.</b>                                        | 2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur                                                                                                            |
| <b>Bawng</b>                                            | <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> |
| <b>Ar</b>                                               | <b>Kumtluanin</b>                              | <b>Ranikhet Disease.</b>                                   | 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.                                                                                                       |
|                                                         |                                                | <b>Coccidiosis</b>                                         | 2. Amprolium emaw coccidiostat pek tur.                                                                                                                                                                                  |



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**District:** Saiha

**Period:** 22 October – 26 October, 2016

**Bulletin No:** - 647/2016/ Bulletin/English

**Date of issue:** 21<sup>st</sup> October, 2016

| Parameters               | 22.10.2016   | 23.10.2016      | 24.10.2016   | 25.10.2016   | 26.10.2016 |
|--------------------------|--------------|-----------------|--------------|--------------|------------|
| <b>Rainfall (mm)</b>     | 0            | 0               | 0            | 0            | 0          |
| <b>Max Temp (°C)</b>     | 28           | 28              | 27           | 27           | 27         |
| <b>Min Temp (°C)</b>     | 14           | 14              | 14           | 13           | 13         |
| <b>Cloud Coverage</b>    | Mainly clear | Partially clear | Mainly clear | Mainly clear | Clear sky  |
| <b>Max RH (%)</b>        | 99           | 97              | 97           | 98           | 98         |
| <b>Min RH (%)</b>        | 50           | 46              | 44           | 46           | 49         |
| <b>Wind Speed (Kmph)</b> | 4            | 4               | 2            | 2            | 2          |
| <b>*Wind Direction</b>   | N-E          | N-E             | N-E          | N-E          | N-E        |

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

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

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

**Weather summary of the past three days**

**Maximum Tem. (°C):23-24°C**  
**Minimum Tem. (°C):12-14°C**  
**Maximum RH (%):97-99%**  
**Minimum RH (%):52-75%**  
**Wind Direction: Southerly**  
**Cloud cover: Mainly cloudy**  
**Wind Speed: 1km/hr**

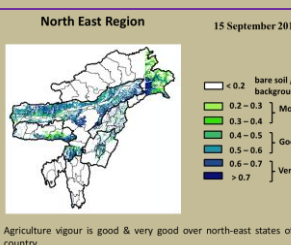
**Rainfall: 00.0 mm**

**Weather forecast valid from 22<sup>nd</sup> October, 2016 To 26<sup>th</sup> October, 2016.**

There is no chance of during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-28°C and 13-14°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 44-50%. Wind direction would be northeasterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

**NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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| Main Crop/<br>Animal<br>/ Fisheries         | Stage                       | Cultural<br>practices/ Pest/<br>Diseases | Agricultural / Horticultural/ animal<br>husbandry advisories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|-----------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Khasi<br/>Mandarin and<br/>acid lime</b> | <b>Harvesting<br/>stage</b> | <p>KOLASIB<br/>MAMIT<br/>AIZAWL</p>      | <ul style="list-style-type: none"> <li>Orange is picked when colour turn to dark green to pale yellow.</li> <li>Mandarins and sweet oranges normally take 240-280 days to arrive at maturity.</li> <li>Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days.</li> <li>Limes and lemons take 150-160 days for maturity.</li> <li>There may be 2 or 3 crops in a year in limes and lemons.</li> <li>The cold storage conditions for long term storage for different citrus fruits are available.</li> <li>Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.</li> </ul> |
|                                             |                             | <p>LUNGLEI<br/>LAWNGTLAI<br/>SAITAI</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 jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Passion Fruit</b>                        | <b>Harvesting<br/>stage</b> | <p>LUNGLEI<br/>LAWNGTLAI<br/>SAITAI</p>  | <ul style="list-style-type: none"> <li>The vines start yielding fruits after 10 months of planting and bearing reaches optimum by 16-18 months.</li> <li>There are two main periods of fruiting from August to December and March to May.</li> <li>Fruits take 80-85 days to reach maturity.</li> <li>Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.</li> <li>The fruits should be marketed quickly to prevent loss in weight and their appearance.</li> <li>The rind becomes wrinkled on drying</li> </ul>                                                               |



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|                 |                         |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|-------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                         |                              | but the pulp remains in good condition for several days.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                 |                         | <b>Fruit fly</b>             | <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 jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> </ul>                                                                                                                                                                                                          |
| <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> |
|                 |                         | <b>Banana Rhizome weevil</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 /l 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>Oil plam</b> | <b>Fruiting stage</b>   |                              | <p><b>Ablation:</b></p> <ul style="list-style-type: none"> <li>Ablation is the removal of male and female flowers produced in the early stages of plantation.</li> <li>This enables the plant to gain adequate stem girth, vigour and develop adequate root system. Flowering starts from 14<sup>th</sup> to 18<sup>th</sup> month after planting.</li> <li>Start ablation immediately after the</li> </ul>                                                                                   |



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|                                  |                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------|-------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  |                         |  | <p>appearance of inflorescences on the palms.</p> <ul style="list-style-type: none"> <li>They can be removed easily by hand pulling or using the tool developed at DOPR.</li> <li>Ablation can be extended up to 2-1/2 to 3 years depending upon the plant growth and vigour.</li> </ul> <p><b>Pollination:</b></p> <ul style="list-style-type: none"> <li>Wind and insects assist pollination, but wind pollination is not adequate.</li> <li>Effective pollinating insects like <i>Elaeidobius kamerunicus</i> helps in good pollination and fruit set.</li> <li>Release of this weevil after 2-1/2 year of planting is advisable.</li> <li>If the plants are not having good girth and vigour, release the weevils after 3 years.</li> </ul> |
| <b>Colocasia</b>                 | <b>Harvesting stage</b> |  | <ul style="list-style-type: none"> <li>Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.</li> <li>Crop will be ready for harvest in 6-8 months after planting.</li> <li>One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.</li> <li>After this, irrigation has to be withheld to hasten maturity.</li> <li>Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.</li> </ul>                                                                                                   |
| <b>Baibing (Local Vegetable)</b> | <b>Harvesting stage</b> |  | <ul style="list-style-type: none"> <li>Weed free near base of the plant.</li> <li>Harvest all mature fruits.</li> <li>Keep seeds for next year.</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> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |



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|                 |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                  |                 | <ul style="list-style-type: none"> <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 phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.</li> </ul>                                                                                                                                                                                                                                                                                                                                            |
| Brinjal         | Harvesting stage | KOLASIB         | <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 ripped or over matured fruit.</li> <li>Keep extracted for sun dry and keep for next year.</li> </ul>                                                                                                                                                                                                                                                    |
| Tomato          | Vegetative stage | AIZAWL          | <ul style="list-style-type: none"> <li>Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development.</li> <li>Earthing up should also be done after 30 and 45 days of planting.</li> <li>Staking is very important to support the plants to get more yields and quality should be done after one month of planting.</li> <li>Mulching with black polythene film reduces weed growth, increase crop growth, early bearing and total yield.</li> </ul> |
|                 |                  | Bacterial wilt  | <ul style="list-style-type: none"> <li>Uproot all infected plant and burn it.</li> <li>This disease can be minimized by practicing crop rotation.</li> <li>Soil dranching with Bordeaux mixture (1:1:100) after one month of planting is effective method to manage this disease.</li> </ul>                                                                                                                                                                                                                   |
| Early Cole crop | Vegetative stage | LAWNGTLAI       | <ul style="list-style-type: none"> <li>Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development.</li> <li>To produce compact head, the plant should be earthing up 4-5 weeks after transplanting.</li> <li>Water should be applied at every week interval.</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)



|                            |                         |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|-------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                         |                                                              | <ul style="list-style-type: none"> <li>Heavy irrigation is avoided at the time of maturity of head to avoid cracking.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                 |
|                            |                         | <b>N deficiency</b><br>KOLASIB                               | <ul style="list-style-type: none"> <li>Deficiency is managed with the application of neem cake @0.4kg/m<sup>2</sup>.</li> <li>Apply 2% urea solution when this symptom will occur.</li> </ul>                                                                                                                                                                                                                                                                                                                    |
|                            |                         | <b>P deficiency</b><br>MAMIT<br>AIZAWL<br>CHAMPA<br>SERCHHIP | <ul style="list-style-type: none"> <li>Deficiency is managed with the application of phosphorus based fertilizer @ 0.4kg/m<sup>2</sup>.</li> <li>Apply 4% DAP solution when this symptom will occur.</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 mixture.</li> </ul> |
|                            |                         | <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/lit of water.</li> </ul>                                                                                                                                                                                                                                                                                                                                              |
| <b>Capsicum</b>            | <b>Nursery stage</b>    | <b>Poly house</b><br>LUNGLEI                                 | <ul style="list-style-type: none"> <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>                                                                                                                                                                                                                                                                  |
|                            |                         |                                                              | <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>Onion</b>               | <b>Nursery stage</b>    | <b>Poly house</b><br>SAIHA                                   | <ul style="list-style-type: none"> <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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Mizoram Centre, Kolasib- 796081, MIZORAM

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|                    |                                     |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------|-------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                                     |                        | <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>French bean</b> | <b>Sowing stage</b>                 | KOLASIB                | <ul style="list-style-type: none"> <li>Variable, healthy, well mature and pure seeds should be sown.</li> <li>Optimum spacing for pole type 60 cm X 30 cm.</li> <li>Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.</li> </ul>                                                                                                                                                                                                                                                                      |
| <b>Kharif Rice</b> | <b>Physiological maturity stage</b> | AIZAWL                 | <ul style="list-style-type: none"> <li>Colour turns to green to light gold.</li> <li>Make drains corner side of the plot</li> <li>Drain out stagnant water to create stress for early maturity.</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 infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.</li> </ul> |
|                    |                                     | Bird damage            | <ul style="list-style-type: none"> <li>Pyrotechnics include a wide variety of noise-producing cartridges usually fired from rockets or rope bangers, or on aerodromes from modified pistols or shotguns, which produce a loud bang and emit flashes of light.</li> <li>Balloons tethered in a crop are an inexpensive method of bird deterrence.</li> <li>Kites and kite-hawks work as mobile predator models, which birds perceive as a threat.</li> </ul>                                                                   |
|                    |                                     | Rice yellow stem borer | <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</li> </ul>                                                                                                                                                                                                                                                                                                                            |



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|                |                                  |                                                          |                                                                                                                                                                                                                                           |
|----------------|----------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |                                  |                                                          | phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.                                                                                                                                                                       |
| <b>Pig</b>     | <b>All stages</b>                | <b>Pig disease</b>                                       | ✚ 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.                                       |
|                |                                  | <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                                                                                                                                                  |
| <b>Cattle</b>  | <b>All age group</b>             | <b>Foot and Mouth Disease (FMD)</b>                      | • FMD vaccine at 16 week and repeat every 6 month.                                                                                                                                                                                        |
|                | <b>Young stage</b>               | <b>Black Quarter (BQ)</b>                                | • Black Quarter Vaccine (BQV).<br>❖ Primary vaccination 6 month or above<br>❖ Revaccination annually                                                                                                                                      |
| <b>Poultry</b> | <b>Litter management</b>         |                                                          | ✚ Maintain light 12-14 hrs in brooder house.<br>✚ The litter should be 7.5- 10 cm deep.<br>✚ Saw dust, paddy husk or ground nut hulls can be used as litter.<br>✚ Add lime with Saw dust, paddy husk or ground nut for maintain moisture. |
|                | <b>Preventive measures</b>       | <b>0-3<sup>rd</sup> week</b>                             | ✚ <b>Ranikhet Disease-</b> F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.<br>✚ B complex with antibodies                                                                                                 |
|                |                                  | <b>4<sup>th</sup> weeks</b>                              | ✚ <b>Coccidiosis-</b> Amprolium or coccidiostat                                                                                                                                                                                           |
|                |                                  | <b>4-5<sup>th</sup> Weeks</b>                            | ✚ Calcium tonic fortified with B <sub>12</sub>                                                                                                                                                                                            |
|                | <b>Bacillary White Diarrhoea</b> | <b>All stage</b>                                         | ✚ Burn all the dead birds.<br>✚ Furaldone@ 0.5 g/litre of water for 7 days.                                                                                                                                                               |



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## Expert committee members:

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# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Saiha

**Period:** 22 October – 26 October, 2016

**Bulletin No:** - 647/2016/ Bulletin/Mizo

**Date of issue:** 21<sup>st</sup> October, 2016

| Parameters        | 22.10.2016   | 23.10.2016      | 24.10.2016   | 25.10.2016   | 26.10.2016 |
|-------------------|--------------|-----------------|--------------|--------------|------------|
| Rainfall (mm)     | 0            | 0               | 0            | 0            | 0          |
| Max Temp (°C)     | 28           | 28              | 27           | 27           | 27         |
| Min Temp (°C)     | 14           | 14              | 14           | 13           | 13         |
| Cloud Coverage    | Mainly clear | Partially clear | Mainly clear | Mainly clear | Clear sky  |
| Max RH (%)        | 99           | 97              | 97           | 98           | 98         |
| Min RH (%)        | 50           | 46              | 44           | 46           | 49         |
| Wind Speed (Kmph) | 4            | 4               | 2            | 2            | 2          |
| *Wind Direction   | N-E          | N-E             | N-E          | N-E          | N-E        |

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

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

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

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

**22<sup>nd</sup> October– 26<sup>th</sup> October, 2016 chhunga sik leh sa dinhmun tur tlangpui**

**Maximum Tem. (°C):23-24°C**  
**Minimum Tem. (°C):12-14°C**  
**Maximum RH (%):97-99%**  
**Minimum RH (%):52-75%**  
**Wind Direction: Southerly**  
**Cloud cover: Mainly cloudy**  
**Wind Speed: 1km/hr**

Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 27-28°C a ni ang a. A vawh lai berin 13-14°C ni tura beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 44-50% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam hawi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.

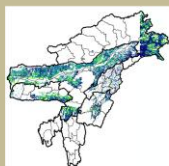
**Rainfall: 00.0 mm**

**Weekly cumulative rainfall: 00.0mm**

**NDVI for Mizoram**

North East Region

8 September 2016



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

Moderately wet mildly dry/mildly wet conditions



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| Thlai/ ran /sangha                  | Spat zawng                        | Hmalakna tur/ rannung leh natna hrik awm thei te | Agricultural/Horticultural/ animal husbandry atana thurawn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------|-----------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Khasi Mandarin and acid lime</b> | <b>Phun sawn (transplant) hun</b> |                                                  | <ul style="list-style-type: none"> <li>Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmuna 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 chiaah tur a ni a, A tukah Lei hnawng awmna pot (moist pot) ah ½ inch vela thukah tuh tur a ni. Pot chu plastic bag emaw, sarangin emaw tuam a, Ni zung hmuh thatna leh hmun lumah a rawn to chhuah hma chu dah tur a ni. Chumi zawhah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.</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</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 leafminior and butterfly</b><br> | <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 inzatz 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> 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 hniah 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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|         |                 |                          |                                                                                                                                                                                                                                                                                                                                                                      |
|---------|-----------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                 |                          | <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>                                                                                                                                                                                                                              |
| Balhla  | A par lai       |                          | <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> |
|         |                 | Banana Rhizome weevil    | <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 paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.</li> </ul>                                                                                                                                                             |
|         | A hmin hun      |                          | <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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Mizoram Centre, Kolasib- 796081, MIZORAM

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



|             |                  |                                                        |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                  | KOLASIB                                                | <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> |
|             | Par a chhuah hma | MAMIT<br>AIZAWL<br>CHAMPAI                             | <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>                                                     |
|             |                  | Aphid<br>SERCHHIP                                      | <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 | A seng hunlai    | LUNGLEI                                                | <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 hralh 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>                |
|             |                  | Rat damage (Sazu in a tihchhiat)<br>LAWNGTLAI<br>SAIHA | <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   | Par a chhuah hma |                                                        | <ul style="list-style-type: none"> <li>A bul vel tihfai that a, a zar tangkai lo ho paih tur.</li> </ul>                                                                                                                                                                                                                                                        |



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|                      |                                   |                 |                                                                                                                                                                                                                                                                                                                                |
|----------------------|-----------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                                   | KOLASIB         | <ul style="list-style-type: none"> <li>A zung bul rih vur a leitha vawihnih pek tur.</li> <li>Tui tling tur vennis tui hawk luankawr mumal tak siam tur.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> </ul>                                          |
|                      |                                   | Corm borer      | <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>                                                                                                                                    |
| Cucurbitaceous crops | A seng hun                        | AIZAWL CHAMPAI  | <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 hnim thlawh 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> |
|                      |                                   | Fruit fly       | <ul style="list-style-type: none"> <li>Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.</li> </ul>                                                                                                                                                                                                      |
| Bawrh Saiabe         | A par hma deuh atang a par thleng | LUNGLEI         | <ul style="list-style-type: none"> <li>A hnah ro vel pawthlak 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>          |
|                      |                                   | Okra leafroller | <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>                                                                                                                                     |
| Behlawi              | Rah a chhuah tan                  | LAWNGTLAI SAIHA | <ul style="list-style-type: none"> <li>A bul vel tihfai that a, a zar</li> </ul>                                                                                                                                                                                                                                               |



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|                                           |                                               |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                           | atanga seng hun<br>thleng                     | KOLASIB                                                                | <p>tangkai lo ho paih 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 hnim 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                                  | Rah a chhuah tan<br>atanga seng hun<br>thleng | AIZAWL<br>CHAMPAI<br>SERCHHIP                                          | <ul style="list-style-type: none"> <li>A bul vel tihfai that a, a zar tangkai lo ho paih tur.</li> <li>Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnim to tam tur a veng.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, thlai thang a tichak bawk.</li> <li>Ram Hactare khata zauah leitha Urea 50kg hi hmun hnihah thenin vawihnih phul tur a ni.</li> <li>A rah puitling apiang seng zel tur.</li> </ul> |
|                                           |                                               | Shoot and fruit<br>borer (thlai kung leh<br>a rah bawm chi<br>rannung) | <ul style="list-style-type: none"> <li>Natna in a tihchhiat tawh thlai peng lakthlak a paih 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>                                                                                                                                                                                                                                   |
|                                           |                                               | Brinjal leaf beetle                                                    | <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<br>(Buh fur laia<br>chin chi) | Phun sawn hunlai                              | LAWNGTLAL<br>SAIHA                                                     | <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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|                                      |                                                          |                                              |                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------|----------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      |                                                          |                                              | <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>                                                                                                                                                                            |
| <b>Kharif rice</b>                   | <b>A peng insiamtur zawng zawng insiam zawh hnu lawk</b> | KOLASIB                                      | <ul style="list-style-type: none"> <li>A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur.</li> <li>Leitha vawihnih pek tur.</li> <li>Tui tling tur vennis tui hawk luanna mumal tak siam tur.</li> </ul>                                                                                                                                         |
| <b>Pre Kharif Rice</b>               | <b>A vui inseam tan lai</b>                              | MAMIT                                        | <ul style="list-style-type: none"> <li>A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur.</li> <li>Leitha vawihnih pek tur.</li> <li>Tui tling tur vennis 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 paih 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>                                                                                          |
| <b>Vaimim fur hma a seng chi</b>     | <b>A seng hun</b>                                        | SERCHHIP                                     | <ul style="list-style-type: none"> <li>A rah zawng zawng seng vek tur.</li> <li>Keh hun zawng ni saah phoro tur.</li> <li>Vaimim chi chu rapah rep tur.</li> </ul>                                                                                                                                                                                            |
| <b>Vaimim fur hma hreta seng chi</b> | <b>A kung puitlin hun</b>                                | LUNGLEI                                      | <ul style="list-style-type: none"> <li>A kung bul vela hnim vel tihfai that tur.</li> <li>Leitha nena rihvur tur.</li> <li>Leitha vawi hnih 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>                                                                                                                                                                                                                |
| <b>Sawhthing leh Aieng</b>           | <b>Par a chhuah hma</b>                                  | LAWNGTLAI SAIHA                              | <ul style="list-style-type: none"> <li>Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha<sup>-1</sup> Metolachlor (Dual) @1.5-2.0 kg a.i ha<sup>-1</sup>, Pendimethalin (Stomp)</li> </ul> |



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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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**District:** Serchhip

**Period:** 22 October – 26 October, 2016

**Bulletin No:** - 647/2016/ Bulletin/English

**Date of issue:** 21<sup>st</sup> October, 2016

| Parameters        | 22.10.2016 | 23.10.2016   | 24.10.2016 | 25.10.2016 | 26.10.2016 |
|-------------------|------------|--------------|------------|------------|------------|
| Rainfall (mm)     | 0          | 0            | 0          | 0          | 0          |
| Max Temp (°C)     | 28         | 28           | 28         | 27         | 27         |
| Min Temp (°C)     | 15         | 15           | 15         | 14         | 14         |
| Cloud Coverage    | Clear sky  | Mainly clear | Clear sky  | Clear sky  | Clear sky  |
| Max RH (%)        | 100        | 100          | 100        | 100        | 100        |
| Min RH (%)        | 39         | 32           | 31         | 35         | 43         |
| Wind Speed (Kmph) | 2          | 3            | 2          | 2          | 2          |
| *Wind Direction   | E          | E            | E          | E          | E          |

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

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

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

**Weather summary of the past three days**

**Maximum Tem. (°C):27-29°C**  
**Minimum Tem. (°C): 14-16°C**  
**Maximum RH (%):92-98%**  
**Minimum RH (%):41-65%**  
**Wind Direction: Southeasterly**  
**Cloud cover: Mainly cloudy**  
**Wind speed: 2 km/hr**

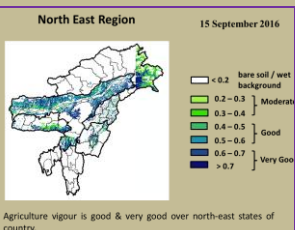
**Rainfall: 00.0 mm**

**Weather forecast valid from 22<sup>nd</sup> October, 2016 To 26<sup>th</sup> October, 2016.**

There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-28°C and 14-15°C. Maximum relative humidity is expected in the range of 100% and minimum may from 31-43%. Wind direction would be easterly with the wind speed of 2 km per hour. Mainly clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

**NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



| Main Crop/<br>Animal<br>/ Fisheries         | Stage                       | Cultural<br>practices/ Pest/<br>Diseases | Agricultural / Horticultural/ animal<br>husbandry advisories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|-----------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Khasi<br/>Mandarin and<br/>acid lime</b> | <b>Harvesting<br/>stage</b> | <p>KOLASIB<br/>MAMIT<br/>AIZAWL</p>      | <ul style="list-style-type: none"> <li>Orange is picked when colour turn to dark green to pale yellow.</li> <li>Mandarins and sweet oranges normally take 240-280 days to arrive at maturity.</li> <li>Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days.</li> <li>Limes and lemons take 150-160 days for maturity.</li> <li>There may be 2 or 3 crops in a year in limes and lemons.</li> <li>The cold storage conditions for long term storage for different citrus fruits are available.</li> <li>Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.</li> </ul> |
|                                             |                             | <b>Fruit fly</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 jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Passion Fruit</b>                        | <b>Harvesting<br/>stage</b> | <p>LUNGLEI<br/>LAWNGTLAI<br/>SAITAI</p>  | <ul style="list-style-type: none"> <li>The vines start yielding fruits after 10 months of planting and bearing reaches optimum by 16-18 months.</li> <li>There are two main periods of fruiting from August to December and March to May.</li> <li>Fruits take 80-85 days to reach maturity.</li> <li>Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.</li> <li>The fruits should be marketed quickly to prevent loss in weight and their appearance.</li> <li>The rind becomes wrinkled on drying</li> </ul>                                                               |



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|                 |                         |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|-------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                         |                              | but the pulp remains in good condition for several days.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                 |                         | <b>Fruit fly</b>             | <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 jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> </ul>                                                                                                                                                                                                          |
| <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> |
|                 |                         | <b>Banana Rhizome weevil</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 /l 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>Oil plam</b> | <b>Fruiting stage</b>   |                              | <p><b>Ablation:</b></p> <ul style="list-style-type: none"> <li>Ablation is the removal of male and female flowers produced in the early stages of plantation.</li> <li>This enables the plant to gain adequate stem girth, vigour and develop adequate root system. Flowering starts from 14<sup>th</sup> to 18<sup>th</sup> month after planting.</li> <li>Start ablation immediately after the</li> </ul>                                                                                   |



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|                  |                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------|-------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                         |  | <p>appearance of inflorescences on the palms.</p> <ul style="list-style-type: none"> <li>They can be removed easily by hand pulling or using the tool developed at DOPR.</li> <li>Ablation can be extended up to 2-1/2 to 3 years depending upon the plant growth and vigour.</li> </ul> <p><b>Pollination:</b></p> <ul style="list-style-type: none"> <li>Wind and insects assist pollination, but wind pollination is not adequate.</li> <li>Effective pollinating insects like <i>Elaeidobius kamerunicus</i> helps in good pollination and fruit set.</li> <li>Release of this weevil after 2-1/2 year of planting is advisable.</li> <li>If the plants are not having good girth and vigour, release the weevils after 3 years.</li> </ul> |
| <b>Colocasia</b> | <b>Harvesting stage</b> |  | <ul style="list-style-type: none"> <li>Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.</li> <li>Crop will be ready for harvest in 6-8 months after planting.</li> <li>One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.</li> <li>After this, irrigation has to be withheld to hasten maturity.</li> <li>Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.</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 ripped or over matured fruit.</li> <li>Keep extracted for sun dry and keep for next</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



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|                            |                                     |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|-------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                                     | <b>Shoot and fruit borer</b> | <ul style="list-style-type: none"> <li>year.</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/lit of water.</li> </ul>                                                                                                                                                                                                                                                                     |
| <b>Tomato</b>              | <b>Nursery stage</b>                | <b>Land preparation</b>      | <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>                                                                                                                                                                                                                         |
|                            |                                     | <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 mixture.</li> </ul> |
|                            |                                     | <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/lit of water.</li> </ul>                                                                                                                                                                                                                                                                                                                                              |
| <b>Kharif Rice</b>         | <b>Physiological maturity stage</b> |                              | <ul style="list-style-type: none"> <li>Colour turns to green to light gold.</li> <li>Make drains corner side of the plot</li> <li>Drain out stagnant water to create stress for early maturity.</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</li> </ul>                                                                                                                                                                                                                                                                            |



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|                                                                        |                  |                                          |                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------|------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                        |                  | KOLASIB                                  | and crop residues in/ around the fields.<br>✚ 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.                                                                                                                 |
|                                                                        |                  | MAMIT<br>AIZAWL<br>Bird damage           | ✚ Pyrotechnics include a wide variety of noise-producing cartridges usually fired from rockets or rope bangers, or on aerodromes from modified pistols or shotguns, which produce a loud bang and emit flashes of light.<br>✚ Balloons tethered in a crop are an inexpensive method of bird deterrence.<br>✚ Kites and kite-hawks work as mobile predator models, which birds perceive as a threat. |
|                                                                        |                  | Rice yellow stem borer                   | ✚ Cut leaf tip from the seedling.<br>✚ Collect and destroy infected parts of the plant.<br>✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.                                                                                                                                                                                      |
| Soybean                                                                | Vegetative stage | Zero tillage                             | ✚ Clear base of the plant.<br>✚ Earthing up soil near to plant for better support.                                                                                                                                                                                                                                                                                                                  |
| Green gram, black gram and French bean (After Pre kharif rice harvest) | Vegetative stage | Zero tillage                             | ✚ Clear base of the plant.<br>✚ Earthing up soil near to plant for better support.<br>✚ For French bean use bamboo for staking or support.<br>✚ Use split dose of fertilizer for better fruiting for French bean.                                                                                                                                                                                   |
| Pig                                                                    | All stages       | Pig disease                              | ✚ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian doctor.                                                                                                                                                                                                 |
|                                                                        |                  | LUNGLEI<br>SAIHA<br>Porcine Reproductive | 1. Culling of positive pigs or piglets.                                                                                                                                                                                                                                                                                                                                                             |



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|                |                                  |                                     |                                                                                                                                                                                                                                                                                                               |
|----------------|----------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |                                  | <b>Respiratory Syndrome (PRRS).</b> |                                                                                                                                                                                                                                                                                                               |
|                | <b>Adult stage</b>               | <b>Swine fever.</b>                 | 2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval                                                                                                                                                                                                                      |
| <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>         |                                     | <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>       | <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>         | ✚ <b>Coccidiosis-</b> Amprolium or coccidiostat                                                                                                                                                                                                                                                               |
|                |                                  | <b>4-5<sup>th</sup> Weeks</b>       | ✚ Calcium tonic fortified with B <sub>12</sub>                                                                                                                                                                                                                                                                |
|                | <b>Bacillary White Diarrhoea</b> | <b>All age</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>                                                                                                                                                                         |



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Guwahati)



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Serchhip

**Period:** 22 October – 26 October, 2016

**Bulletin No:** - 647/2016/ Bulletin/Mizo

**Date of issue:** 21<sup>st</sup> October, 2016

| Parameters        | 22.10.2016 | 23.10.2016   | 24.10.2016 | 25.10.2016 | 26.10.2016 |
|-------------------|------------|--------------|------------|------------|------------|
| Rainfall (mm)     | 0          | 0            | 0          | 0          | 0          |
| Max Temp (oC)     | 28         | 28           | 28         | 27         | 27         |
| Min Temp (oC)     | 15         | 15           | 15         | 14         | 14         |
| Cloud Coverage    | Clear sky  | Mainly clear | Clear sky  | Clear sky  | Clear sky  |
| Max RH (%)        | 100        | 100          | 100        | 100        | 100        |
| Min RH (%)        | 39         | 32           | 31         | 35         | 43         |
| Wind Speed (Kmph) | 2          | 3            | 2          | 2          | 2          |
| *Wind Direction   | E          | E            | E          | E          | E          |

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

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

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

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

**22<sup>nd</sup> October– 26<sup>th</sup> October, 2016 chhunga sik leh sa dinhmun tur tlangpui**

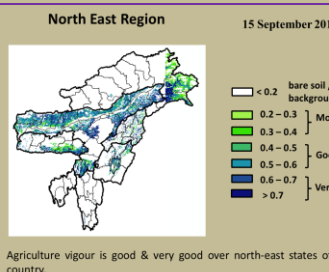
**Maximum Tem. (oC):27-29oC**  
**Minimum Tem. (oC): 14-16oC**  
**Maximum RH (%):92-98%**  
**Minimum RH (%):41-65%**  
**Wind Direction: Southeasterly**  
**Cloud cover: Mainly cloudy**  
**Wind speed: 2 km/hr**

Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 27-28<sup>o</sup>C a ni ang a. A vawh lai berin 14-15<sup>o</sup>C ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 31-43% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam hawi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.

**Rainfall: 00.0 mm**

**Weekly cumulative rainfall: 00.0mm**

**NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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| Thlai/ ran /sangha           | Spat zawng                 | Hmalakna tur/ rannung leh natna hrik awm thei te | Agricultural/Horticultural/ animal husbandry atana thurawn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------|----------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Khasi Mandarin and acid lime | Phun sawn (transplant) hun |                                                  | <ul style="list-style-type: none"> <li>Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmuna 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 chiaah tur a ni a, A tukah Lei hnawng awmna pot (moist pot) ah ½ inch vela thukah tuh tur a ni. Pot chu plastic bag emaw, sarangin emaw tuam a, Ni zung hmuh thatna leh hmun lumah a rawn to chhuah hma chu dah tur a ni. Chumi zawhah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.</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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Mizoram Centre, Kolasib- 796081, MIZORAM

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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 leafminior and butterfly</b><br> | <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 inzatz 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> 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 hniah 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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|         |                 |                          |                                                                                                                                                                                                                                                                                                                                                                      |
|---------|-----------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                 |                          | <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>                                                                                                                                                                                                                              |
| Balhla  | A par lai       |                          | <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> |
|         |                 | Banana Rhizome weevil    | <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 paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.</li> </ul>                                                                                                                                                             |
|         | A hmin hun      |                          | <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>                                                                                                                                                                                                                                |

|             |                  |                                                        |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                  | KOLASIB                                                | <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> |
|             | Par a chhuah hma | MAMIT<br>AIZAWL<br>CHAMPAI                             | <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>                                                     |
|             |                  | Aphid<br>SERCHHIP                                      | <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 | A seng hunlai    | LUNGLEI                                                | <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 hralh 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>                |
|             |                  | Rat damage (Sazu in a tihchhiat)<br>LAWNGTLAI<br>SAIHA | <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   | Par a chhuah hma |                                                        | <ul style="list-style-type: none"> <li>A bul vel tihfai that a, a zar tangkai lo ho paih tur.</li> </ul>                                                                                                                                                                                                                                                        |



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|                      |                                   |                 |                                                                                                                                                                                                                                                                                                                                |
|----------------------|-----------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                                   | KOLASIB         | <ul style="list-style-type: none"> <li>A zung bul rih vur a leitha vawihnih pek tur.</li> <li>Tui tling tur vennis tui hawk luankawr mumal tak siam tur.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> </ul>                                          |
|                      |                                   | Corm borer      | <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>                                                                                                                                    |
| Cucurbitaceous crops | A seng hun                        | AIZAWL CHAMPAI  | <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 hnim thlawh 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> |
|                      |                                   | Fruit fly       | <ul style="list-style-type: none"> <li>Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.</li> </ul>                                                                                                                                                                                                      |
| Bawrh Saiabe         | A par hma deuh atang a par thleng | LUNGLEI         | <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>         |
|                      |                                   | Okra leafroller | <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>                                                                                                                                     |
| Behlawi              | Rah a chhuah tan                  | LAWNGTLAI SAIHA | <ul style="list-style-type: none"> <li>A bul vel tihfai that a, a zar</li> </ul>                                                                                                                                                                                                                                               |

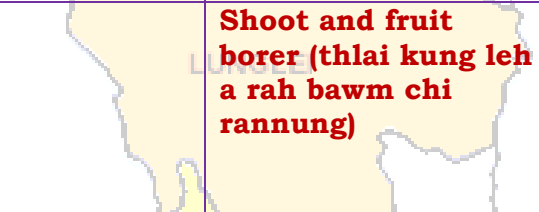


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|                                            |                                                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | <b>atanga seng hun thleng</b>                  |    | <p>tangkai lo ho paih 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 hnim 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>Bawkbawn</b>                            | <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 paih tur.</li> <li>Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnim to tam tur a veng.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, thlai thang a tichak bawk.</li> <li>Ram Hactare khata zauah leitha Urea 50kg hi hmun hnihah thenin vawihnih phul tur a ni.</li> <li>A rah puitling apiang seng zel tur.</li> </ul> |
|                                            |                                                |  | <p><b>Shoot and fruit borer (thlai kung leh a rah bawm chi rannung)</b></p> <ul style="list-style-type: none"> <li>Natna in a tihchhiat tawh thlai peng lakthlak a paih 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>                                                                                                                                                       |
|                                            |                                                |  | <p><b>Brinjal leaf beetle</b></p> <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>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> </ul>                                                                                                                                                                                                                                                                                                                  |



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|                               |                                                   |                                              |                                                                                                                                                                                                                                                                                                                                                               |
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|                               |                                                   |                                              | <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>                                                                                                                                                                            |
| Kharif rice                   | A peng insiamtur zawng zawng insiam zawh hnu lawk | KOLASIB                                      | <ul style="list-style-type: none"> <li>A bul vela hnim 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               | A vui inseam tan lai                              | MAMIT                                        | <ul style="list-style-type: none"> <li>A bul vela hnim 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 paih 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     | A seng hun                                        | SERCHHIP                                     | <ul style="list-style-type: none"> <li>A rah zawng 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 | A kung puitlin hun                                | LUNGLEI                                      | <ul style="list-style-type: none"> <li>A kung bul vela hnim vel tihfai that tur.</li> <li>Leitha nena rihvur tur.</li> <li>Leitha vawi hnih 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           | Par a chhuah hma                                  | LAWNGTLAI SAIHA                              | <ul style="list-style-type: none"> <li>Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha<sup>-1</sup> Metolachlor (Dual) @1.5-2.0 kg a.i ha<sup>-1</sup>, Pendimethalin (Stomp)</li> </ul> |



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|                                                         |                                                |                                                            |                                                                                                                                                                                                                          |
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|                                                         |                                                |                                                            | @ 1-1.5kg a.i ha <sup>-1</sup> te hian hnimhnah lian lampang chi a veng a ni.                                                                                                                                            |
|                                                         |                                                | <b>Turmeric shoot borer (Aieng kung ei chhetu rannung)</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 lakkhawm a halral tur.</li> </ul>                  |
|                                                         |                                                | <b>Aphid and bug</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>   | 1. A natna vei vawk te chu thah a phum tur a ni.                                                                                                                                                                         |
|                                                         | <b>A puitling hun</b>                          | <b>Swine fever.</b>                                        | 2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur                                                                                                            |
| <b>Bawng</b>                                            | <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> |
| <b>Ar</b>                                               | <b>Kumtluanin</b>                              | <b>Ranikhet Disease.</b>                                   | 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.                                                                                                       |
|                                                         |                                                | <b>Coccidiosis</b>                                         | 2. Amprolium emaw coccidiostat pek tur.                                                                                                                                                                                  |



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## Expert committee members:

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



**District:** Aizawl

**Period:** 22 October – 26 October, 2016

**Bulletin No:** - 647/2016/ Bulletin/English

**Date of issue:** 21<sup>st</sup> October, 2016

| Parameters        | 22.10.2016 | 23.10.2016   | 24.10.2016 | 25.10.2016 | 26.10.2016 |
|-------------------|------------|--------------|------------|------------|------------|
| Rainfall (mm)     | 0          | 0            | 0          | 0          | 0          |
| Max Temp (°C)     | 30         | 30           | 30         | 29         | 29         |
| Min Temp (°C)     | 13         | 13           | 12         | 12         | 12         |
| Cloud Coverage    | Clear sky  | Mainly clear | Clear sky  | Clear sky  | Clear sky  |
| Max RH (%)        | 100        | 100          | 100        | 100        | 100        |
| Min RH (%)        | 45         | 38           | 35         | 39         | 44         |
| Wind Speed (Kmph) | 2          | 2            | 2          | 2          | 2          |
| *Wind Direction   | E          | E            | E          | E          | S-E        |

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

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

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

**Weather summary of the past three days**

**Maximum Tem. (°C):28-29°C**  
**Minimum Tem. (°C): 17-18°C**  
**Maximum RH (%):99-100%**  
**Minimum RH (%):44-64%**  
**Wind Direction: Southerly**  
**Cloud cover: Mainly cloudy**  
**Wind speed: 2 km/hr**

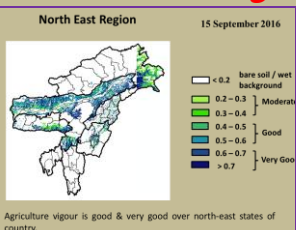
**Rainfall: 00.0 mm**

**Weather forecast valid from 22<sup>nd</sup> October, 2016 To 26<sup>th</sup> October, 2016.**

There is no chance of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 12-13°C. Maximum relative humidity is expected in the range of 100% and minimum may from 38-45%. Wind direction would be easterly to southeasterly with the wind speed of 2 km per hour. Mainly clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

**NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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| Main Crop/<br>Animal<br>/ Fisheries         | Stage                       | Cultural<br>practices/ Pest/<br>Diseases | Agricultural / Horticultural/ animal<br>husbandry advisories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|-----------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Khasi<br/>Mandarin and<br/>acid lime</b> | <b>Harvesting<br/>stage</b> | <p>KOLASIB<br/>MAMIT<br/>AIZAWL</p>      | <ul style="list-style-type: none"> <li>Orange is picked when colour turn to dark green to pale yellow.</li> <li>Mandarins and sweet oranges normally take 240-280 days to arrive at maturity.</li> <li>Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days.</li> <li>Limes and lemons take 150-160 days for maturity.</li> <li>There may be 2 or 3 crops in a year in limes and lemons.</li> <li>The cold storage conditions for long term storage for different citrus fruits are available.</li> <li>Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.</li> </ul> |
|                                             |                             | <p>LUNGLEI<br/>LAWNGTLAI<br/>SAITAI</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 jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Passion Fruit</b>                        | <b>Harvesting<br/>stage</b> | <p>LUNGLEI<br/>LAWNGTLAI<br/>SAITAI</p>  | <ul style="list-style-type: none"> <li>The vines start yielding fruits after 10 months of planting and bearing reaches optimum by 16-18 months.</li> <li>There are two main periods of fruiting from August to December and March to May.</li> <li>Fruits take 80-85 days to reach maturity.</li> <li>Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.</li> <li>The fruits should be marketed quickly to prevent loss in weight and their appearance.</li> <li>The rind becomes wrinkled on drying</li> </ul>                                                               |



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|                 |                         |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|-------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                         |                              | but the pulp remains in good condition for several days.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                 |                         | <b>Fruit fly</b>             | <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 jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> </ul>                                                                                                                                                                                                          |
| <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> |
|                 |                         | <b>Banana Rhizome weevil</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 /l 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>Oil plam</b> | <b>Fruiting stage</b>   |                              | <p><b>Ablation:</b></p> <ul style="list-style-type: none"> <li>Ablation is the removal of male and female flowers produced in the early stages of plantation.</li> <li>This enables the plant to gain adequate stem girth, vigour and develop adequate root system. Flowering starts from 14<sup>th</sup> to 18<sup>th</sup> month after planting.</li> <li>Start ablation immediately after the</li> </ul>                                                                                   |



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|                   |                         |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------|-------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                         |                         | <p>appearance of inflorescences on the palms.</p> <ul style="list-style-type: none"> <li>They can be removed easily by hand pulling or using the tool developed at DOPR.</li> <li>Ablation can be extended up to 2-1/2 to 3 years depending upon the plant growth and vigour.</li> </ul> <p><b>Pollination:</b></p> <ul style="list-style-type: none"> <li>Wind and insects assist pollination, but wind pollination is not adequate.</li> <li>Effective pollinating insects like <i>Elaeidobius kamerunicus</i> helps in good pollination and fruit set.</li> <li>Release of this weevil after 2-1/2 year of planting is advisable.</li> <li>If the plants are not having good girth and vigour, release the weevils after 3 years.</li> </ul> |
| <b>Colocasia</b>  | <b>Harvesting stage</b> |                         | <ul style="list-style-type: none"> <li>Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.</li> <li>Crop will be ready for harvest in 6-8 months after planting.</li> <li>Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.</li> <li>Keep the cormels in shed dry.</li> </ul>                                                                                                                                                                                                                                                                                                                                                  |
| <b>Tomato</b>     | <b>Nursery stage</b>    | <b>Land preparation</b> | <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                   |                         | <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</b> | <b>Vegetative</b>       |                         | <ul style="list-style-type: none"> <li>Remove unwanted plant near base of the plant and cut dead branches.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

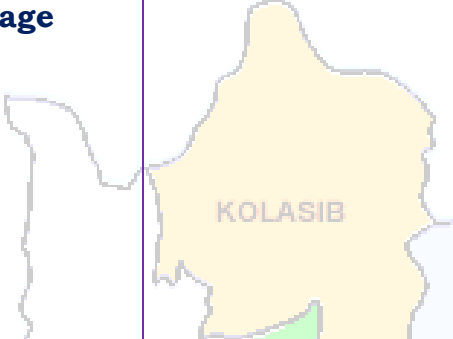
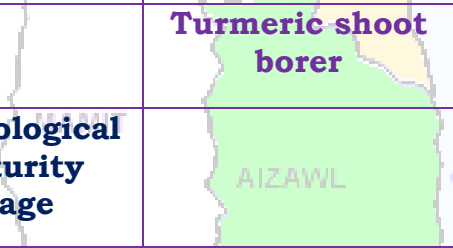
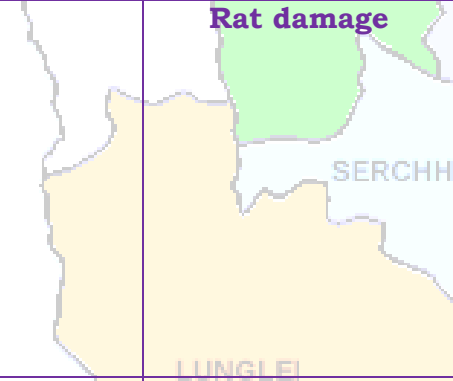
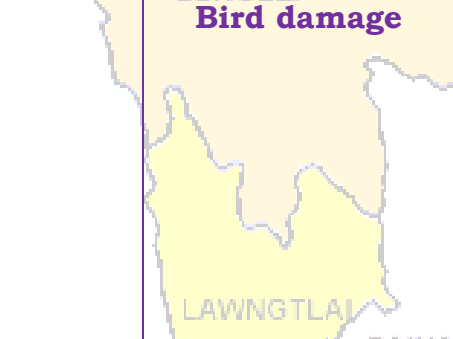
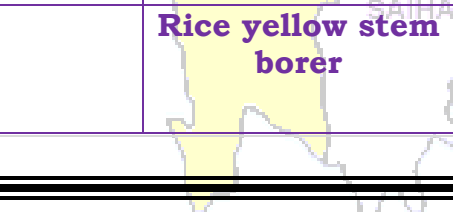
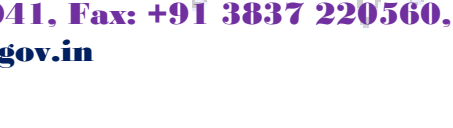


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Mizoram Centre, Kolasib- 796081, MIZORAM

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|                    |                                     |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------|-------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>turmeric</b>    | <b>stage</b>                        |    | <ul style="list-style-type: none"> <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 mixture.</li> </ul>                                                                                                                      |
|                    |                                     |    | <ul style="list-style-type: none"> <li><b>Turmeric shoot borer</b></li> <li>Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.</li> </ul>                                                                                                                                                                                                                                                                                                                                                 |
| <b>Kharif Rice</b> | <b>Physiological maturity stage</b> |   | <ul style="list-style-type: none"> <li>Colour turns to green to light gold.</li> <li>Make drains corner side of the plot</li> <li>Drain out stagnant water to create stress for early maturity.</li> </ul>                                                                                                                                                                                                                                                                                                                                               |
|                    |                                     |  | <ul style="list-style-type: none"> <li><b>Rat damage</b></li> <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 infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.</li> </ul> |
|                    |                                     |  | <ul style="list-style-type: none"> <li><b>Bird damage</b></li> <li>Pyrotechnics include a wide variety of noise-producing cartridges usually fired from rockets or rope bangers, or on aerodromes from modified pistols or shotguns, which produce a loud bang and emit flashes of light.</li> <li>Balloons tethered in a crop are an inexpensive method of bird deterrence.</li> <li>Kites and kite-hawks work as mobile predator models, which birds perceive as a threat.</li> </ul>                                                                  |
|                    |                                     |  | <ul style="list-style-type: none"> <li><b>Rice yellow stem borer</b></li> <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</li> </ul>                                                                                                                                                                                                                                                                                                                |



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|                                                                               |                            |                                                          |                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                               |                            |                                                          | phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.                                                                                                                                                                                                                                           |
| <b>Soybean</b>                                                                | <b>Vegetative stage</b>    | <b>Zero tillage</b>                                      | <ul style="list-style-type: none"> <li>✚ Clear base of the plant.</li> <li>✚ Earthing up soil near to plant for better support.</li> </ul>                                                                                                                                                                    |
| <b>Green gram, black gram and French bean (After Pre kharif rice harvest)</b> | <b>Vegetative stage</b>    | <b>Zero tillage</b>                                      | <ul style="list-style-type: none"> <li>✚ Clear base of the plant.</li> <li>✚ Earthing up soil near to plant for better support.</li> <li>✚ For French bean use bamboo for staking or support.</li> <li>✚ Use split dose of fertilizer for better fruiting for French bean.</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> | 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                                                                                                                                                                                                                      |
| <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>   |                                                          | <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> | <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</li> </ul>                                                                                                                                                           |



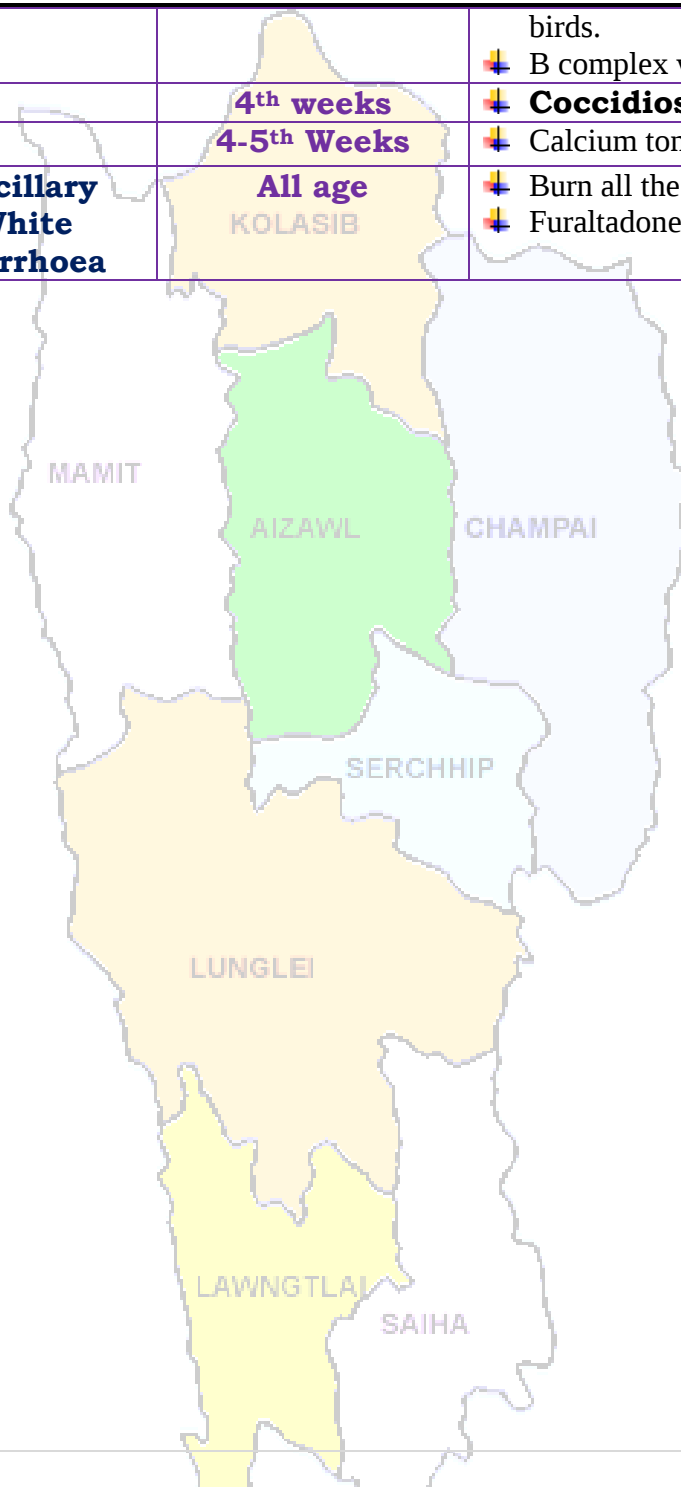
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|  |                                 |                         |                                                                               |
|--|---------------------------------|-------------------------|-------------------------------------------------------------------------------|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





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# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Aizawl

**Period:** 22 October – 26 October, 2016

**Bulletin No:** - 647/2016/ Bulletin/Mizo

**Date of issue:** 21<sup>st</sup> October, 2016

| Parameters        | 22.10.2016 | 23.10.2016   | 24.10.2016 | 25.10.2016 | 26.10.2016 |
|-------------------|------------|--------------|------------|------------|------------|
| Rainfall (mm)     | 0          | 0            | 0          | 0          | 0          |
| Max Temp (°C)     | 30         | 30           | 30         | 29         | 29         |
| Min Temp (°C)     | 13         | 13           | 12         | 12         | 12         |
| Cloud Coverage    | Clear sky  | Mainly clear | Clear sky  | Clear sky  | Clear sky  |
| Max RH (%)        | 100        | 100          | 100        | 100        | 100        |
| Min RH (%)        | 45         | 38           | 35         | 39         | 44         |
| Wind Speed (Kmph) | 2          | 2            | 2          | 2          | 2          |
| *Wind Direction   | E          | E            | E          | E          | S-E        |

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

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

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

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

**22<sup>nd</sup> October– 26<sup>th</sup> October, 2016 chhunga sik leh sa dinhmun tur tlangpui**

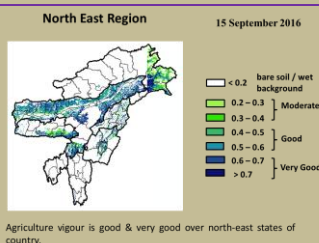
**Maximum Tem. (°C):28-29°C**  
**Minimum Tem. (°C): 17-18°C**  
**Maximum RH (%):99-100%**  
**Minimum RH (%):44-64%**  
**Wind Direction: Southerly**  
**Cloud cover: Mainly cloudy**  
**Wind speed: 2 km/hr**

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A vawh lai ber in 12-13°C ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 38-45% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

**Rainfall: 00.0 mm**

**Weekly cumulative rainfall: 00.0mm**

**\*/NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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| Thlai/ ran /sangha                  | Spat zawng                   | Hmalakna tur/ rannung leh natna hrik awm thei te    | Agricultural/Horticultural/ animal husbandry atana thurawn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------|------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Khasi Mandarin leh acid lime</b> | <b>Seng (Harvesting) hun</b> |                                                     | <ul style="list-style-type: none"> <li>Serthlum rah chu a hringduk atanga rawng eng dala arawn inthlak hunah lawh tur a ni.</li> <li>Mandarins leh sweet oranges te hian an puitlin nan ni 240-280 vel an mamawh.</li> <li>A rah puitling tawhin a hmin rawng a rawn chhuah tan hunah lawh tur a ni a, ni 10-15 inkar danah wawi 2- 3 lawh tur a ni</li> <li>Limes leh lemons hian puitlin nan ni 150-160 an mamawh.</li> <li>Limes leh lemons te hi kum khatah wawi 2 emaw wawi 3 emaw an rah thei.</li> <li>Rei tak dahthat theihna tur vur bawm (cold storage)changtlung tak ser rah chi hrang hrang tan a awm hrang vek bawk a ni.</li> <li>Ser rah te chu boruak thianghlim luh theihna tur bawm (CFB Box) 30 cm x 30cm x 30 cm azau ah pack fel tur a ni.</li> </ul> |
|                                     |                              | <b>Ser rah bawmtu rannung thlawkthei (Fruitfly)</b> | <ul style="list-style-type: none"> <li>Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jeggerly 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Sapthei</b>                      | <b>Seng (Harvesting) hun</b> |                                                     | <ul style="list-style-type: none"> <li>A kung phun a nih atanga thla sawm hnu ah rah a pe chhuak tan a, chuan thla 16-18 a nih thlengin a rah chhunzawm ta thin a ni.</li> <li>Rah hun bik hi tum hnih (2) a nei a chu chu August -</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



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|               |                              |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------|------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |                              |                                                                | <p>December leh March- May ah te an ni.</p> <ul style="list-style-type: none"> <li>A rah hmin nan ni 80-85 vel a mamawh thin.</li> <li>A rah rawn senduk (purple) toh chu a kuang tlem a zawng nen lawh tel tur a ni.</li> <li>A rah seng tawh ho chu a pian hmang leh rihna te a tlakhniam hma in a rang lam a hralh zawh vat tur a ni.</li> <li>A ro hnu in a kor te chu zur angin lang mahse a chhung lam erawh ni engemaw chen chu ala tha vek thung ang.</li> <li>A kung a natna nei te chu lakkhawm a hal ral vek tur.</li> <li>Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jeggerly 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.</li> </ul> |
|               |                              | <p><b>Sapthei rah bawmtu rannung thlawkthei (Fruitfly)</b></p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Balhla</b> | <b>Seng (Harvesting) hun</b> |                                                                | <ul style="list-style-type: none"> <li>A hring atanga a eng a a inthlak hunah .</li> <li>A thlar a balhla ho hmun li a then a hmun thum an pum that a a bak zawngin kil anla neih lain.</li> <li>Balhla hi anla puam a an hrin that lai mahse an hmin hma si in.</li> <li>Balhla te an sin lai leh rawng hring duk anla nih lai chuan sengloh tur a ni.</li> <li>Rawng eng an nih tawh chuan seng nan a tlai tawh tihna a ni.</li> </ul>                                                                                                                                                                                                                                                                                                                               |
|               |                              | <p><b>Balhla zung eichhetu rannung (Banana Rhizome)</b></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</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



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|          |                         |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------|-------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                         | weevil)                 | tui chu rannung tui 50 per cent a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).                                                                                                                                                                                                                                                                                                                                                                           |
|          |                         | Banana panama wilt      | ✚ Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.                                                                                                                                                                                                                                                                                                                   |
|          |                         | Banana beetle           | ✚ A bul vela hnim to tihfai tur<br>✚ A no rawn chawr thar mamawh loh te paih tur<br>✚ Alphamethrin 0.01 per cent hman tur                                                                                                                                                                                                                                                                                                                                                  |
| Oil palm | A rah insiam tan hunlai | AIZAWL CHAMPA SERCHHIP  | ✚ A nu leh pa par hma lutuk te thenfai tur<br>✚ Heihian a kung a ti thag tha in zung a kaih ngheh tir bik thin a ni. Phun atanga thla 14-18 velah an par tlangpui<br>✚ A par nu leh pa hi a kung in vui a rawn chhuah tan tirh ah pawh phawi vat tur anni.<br>✚ Kut in emaw a pawhphawina hmanrua DOPR in ansiam hmangin awlsam takin a tih theih a ni.<br>✚ Hetianga a par nu leh pa lak hi kum hnih leh chanve atanga kum thum annih vel thlengin a tih zawm theih a ni. |
|          |                         | LUNGLEI LAWNGTLAI SAIHA | ✚ Thli leh rannung ten inthlahchhawanna kawngah an pui thin a, amaherawhchu thli hmanga inthlahchhawanna erawh hichuan a thawh hlawklo.<br>✚ Inthlahchhawn nan a rannung tangkai tak <i>Elaeidobius kamerunicus</i> hian a inthlahchhawanna ah leh a rah tur insiam kawngah a pui nasa hle a ni.<br>✚ Phun anih atanga kum hnih leh chanve hnu ah he rannung hi chhuah a tha a, kum thum hnu                                                                               |



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|                                    |                                   |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------|-----------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    |                                   |                                   | a a kung in a that puiloh anih chuan he rannung hi chhuah vek tur a ni.                                                                                                                                                                                                                                                                                                                                                 |
| Colocasia                          | A seng hun                        | KOLASIB                           | <ul style="list-style-type: none"> <li>A hnah te a eng (yellow) tan in a then an tla tan bawk a, chu chuan seng a hun a ni tih a lan tir.</li> <li>Phun atanga thla 6-8 liam hnu ah seng theih a ni.</li> <li>Seng dawnin uluk takin a zung nen phawi chhuah vek tur a ni.</li> <li>Bal chu lahrangin ni hlimah pho hul tur a ni.</li> </ul>                                                                            |
| <p>..will continue tomoro from</p> |                                   |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Tomato                             | A chi kui hun                     | A chi kuitiahna hmun tur siam dan | <ul style="list-style-type: none"> <li>Huan zawlah a chi thehna tur lei rihvum tur, ni hmu tha ni bawk se.</li> <li>A kui na hmun tur chu metre khat a zau tur a ni a, a sei zawng chu mahni huan remchan ang tawk a siam mai tur a ni.</li> <li>FYM hi metre square khatah kg 1.5 – 2.0 hman tur a ni.</li> <li>A chi hi awmze nei taka ngil taka theh tur a ni a, an inkar hlat zawng hi 7-10 cm tur a ni.</li> </ul> |
|                                    |                                   | Fruit fly                         | <ul style="list-style-type: none"> <li>A chi enkawl nan thiram 3g/kg</li> </ul>                                                                                                                                                                                                                                                                                                                                         |
| Bawrhsaiabe                        | A par hma deuh atang a par thleng | LAWNGTLAI SAIHA                   | <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</li> </ul>                                                                                                            |



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|                 |                                                |                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                                                | <b>Okra leafroller</b>                                               | tur a ni.<br>✚ 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.                                                                                                                                                                                                                                                                         |
| <b>Behlawi</b>  | <b>Rah a chhuah tan atanga seng hun thleng</b> | KOLASIB<br>MAMIT<br>AIZAWL<br>CHAMPAI                                | ✚ A bul vel tihfai that a, a zar tangkai lo ho paih tur.<br>✚ A zung bul rih vur a leitha vawihnih pek tur.<br>✚ Tui tling tur vennan tui hawk luankawr mumal tak siam tur.<br>✚ A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah baw a ni.<br>✚ A rah puitling apiang seng zel tur.                                                                                               |
| <b>Bawkbawn</b> | <b>Rah a chhuah tan atanga seng hun thleng</b> | SERCHHIP<br>LUNGLEI                                                  | ✚ A bul vel tihfai that a, a zar tangkai lo ho paih tur.<br>✚ Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnim to tam tur a veng.<br>✚ A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, thlai thang a tichak bawk.<br>✚ Ram Hactare khata zauah leitha Urea 50kg hi hmun hnihah thenin vawihnih phul tur a ni.<br>✚ A rah puitling apiang seng zel tur. |
|                 |                                                | <b>Shoot and fruit borer (thlai kung leh a rah bawm chi rannung)</b> | ✚ Natna in a tihchhiat tawh thlai peng lakthlak a paih tur.<br>✚ 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.                                                                                                                                                                                                                       |
|                 |                                                | <b>Brinjal leaf beetle</b>                                           | ✚ Rannung thahna hlo Acephate (Orthene) emaw carbaryl                                                                                                                                                                                                                                                                                                                                                                           |



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|                                               |                                                          |                                              |                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------|----------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                               |                                                          |                                              | (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.                                                                                                                                                                                                                   |
| <b>Kharif rice</b><br>(Buh fur laia chin chi) | <b>Phun sawn hunlai</b>                                  | KOLASIB                                      | <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 20cm, buh leh buh inkar 15cm hi hmun tha pangngai leh enkawl ulukna hmunah chuan a tawk vel a ni.</li> </ul> |
| <b>Kharif rice</b>                            | <b>A peng insiamtur zawng zawng insiam zawh hnu lawk</b> | AIZAWL CHAMPA                                | <ul style="list-style-type: none"> <li>A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur.</li> <li>Leitha vawihnih pek tur.</li> <li>Tui tling tur vennan tui haw luanna mumal tak siam tur.</li> </ul>                                                                                                     |
| <b>Pre Kharif Rice</b>                        | <b>A vui insem tan lai</b>                               |                                              | <ul style="list-style-type: none"> <li>A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur.</li> <li>Leitha vawihnih pek tur.</li> <li>Tui tling tur vennan tui haw 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 paih 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>                                                     |
| <b>Vaimim fur hma a seng chi</b>              | <b>A seng hun</b>                                        | LUNGLEI                                      | <ul style="list-style-type: none"> <li>A rah zawng zawng seng vek tur.</li> <li>Keh hun zawng ni saah phoro tur.</li> <li>Vaimim chi chu rapah rep tur.</li> </ul>                                                                                                                                                       |
| <b>Vaimim fur hma hreta seng chi</b>          | <b>A kung puitlin hun</b>                                |                                              | <ul style="list-style-type: none"> <li>A kung bul vela hnim vel tihfai that tur.</li> <li>Leitha nena rihvur tur.</li> <li>Leitha vawi hnih 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>                                                                                                                                                                           |
| <b>Sawhthing leh Aieng</b>                    | <b>Par a chhuah hma</b>                                  |                                              | <ul style="list-style-type: none"> <li>Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.</li> </ul>                                                                                                                                                                                                                 |



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|                                                  |                                         |                                                   |                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------|-----------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                  |                                         | KOLASIB                                           | <ul style="list-style-type: none"> <li>Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni.</li> <li>Alachlor (Lasso) @2.25kga.i ha<sup>-1</sup></li> <li>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 hnimhnah lian lampang chi a veng a ni.</li> </ul> |
|                                                  |                                         | MAMIT                                             | <ul style="list-style-type: none"> <li>Turmeric shoot borer (Aieng kung ei chhetu rannung)</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>                                                                                                                                      |
| Kharif pulses (Green gram, Black gram and Rajma) | Par a chhuah atanga rah a chhuah thleng | AIZAWL                                            | <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 lakkhawm a halral tur.</li> </ul>                                                                                                                                                                                      |
|                                                  |                                         | SERCHHIP                                          | <ul style="list-style-type: none"> <li>Aphid and bug</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>                                                                                                                                                                            |
| Vawk                                             | Kumtluanin                              | Porcine Reproductive Respiratory Syndrome (PRRS). | 1. A natna vei vawk te chu thah a phum tur a ni.                                                                                                                                                                                                                                                                                                                                             |
|                                                  | A puitling hun                          | Swine fever.                                      | 2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur                                                                                                                                                                                                                                                                                |
| Bawng                                            | Kumtluanin                              | Foot and Mouth Disease (FMD)                      | <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>                                                                                                                                                                                                                                                     |
|                                                  | A naupan lai                            | Black Quarter (BQ)                                | <ul style="list-style-type: none"> <li>Black Quarter Vaccine (BQ)</li> <li>Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>Kumkhat hnu ah vaccine pek leh tur.</li> </ul>                                                                                                                                                                                                               |
| Ar                                               | Kumtluanin                              | Ranikhet Disease.                                 | 1. Ar note an pian hlimin F <sub>1</sub> vaccine                                                                                                                                                                                                                                                                                                                                             |



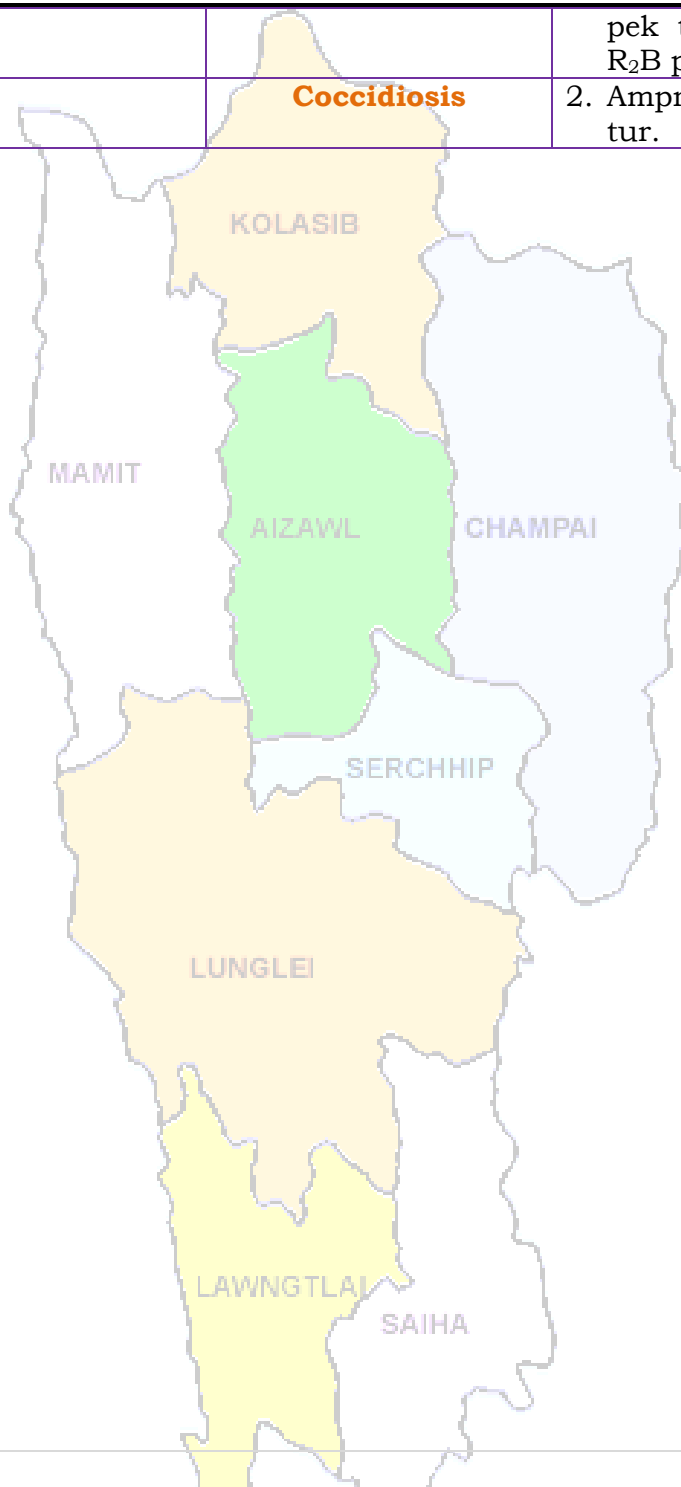
# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



|  |  |                    |                                                                   |
|--|--|--------------------|-------------------------------------------------------------------|
|  |  |                    | pek tur a nia an puitlin hunah R <sub>2</sub> B pek leh tur a ni. |
|  |  | <b>Coccidiosis</b> | 2. Amprolium emaw coccidiostat pek tur.                           |





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



**District:** Champhai

**Period:** 22 October – 26 October, 2016

**Bulletin No:** - 647/2016/ Bulletin/English

**Date of issue:** 21<sup>st</sup> October, 2016

| Parameters        | 22.10.2016 | 23.10.2016   | 24.10.2016 | 25.10.2016 | 26.10.2016 |
|-------------------|------------|--------------|------------|------------|------------|
| Rainfall (mm)     | 0          | 0            | 0          | 0          | 0          |
| Max Temp (°C)     | 29         | 29           | 28         | 28         | 28         |
| Min Temp (°C)     | 14         | 14           | 14         | 13         | 13         |
| Cloud Coverage    | Clear sky  | Mainly clear | Clear sky  | Clear sky  | Clear sky  |
| Max RH (%)        | 99         | 99           | 98         | 99         | 99         |
| Min RH (%)        | 48         | 39           | 37         | 42         | 48         |
| Wind Speed (Kmph) | 3          | 4            | 3          | 2          | 3          |
| *Wind Direction   | S-E        | S-E          | S-E        | S-E        | S-E        |

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

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

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

**Weather summary of the past three days**

**Maximum Tem. (°C): 25-26°C**  
**Minimum Tem. (°C): 13-14°C**  
**Maximum RH (%):96-99%**  
**Minimum RH (%):45-63%**  
**Wind Direction: Southerly**  
**Cloud cover: Mainly cloudy**  
**Wind Speed: 2km/hr**

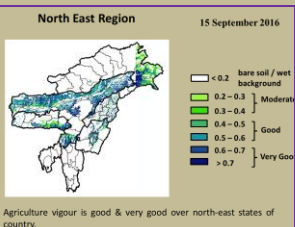
**Rainfall: 04.1 mm**

**Weather forecast valid from 22<sup>nd</sup> October, 2016 To 26<sup>th</sup> October, 2016.**

There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28-29°C and 13-14°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 37-48%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

**NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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| Main Crop/<br>Animal<br>/ Fisheries         | Stage                       | Cultural<br>practices/ Pest/<br>Diseases | Agricultural / Horticultural/ animal<br>husbandry advisories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|-----------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Khasi<br/>Mandarin and<br/>acid lime</b> | <b>Harvesting<br/>stage</b> | <p>KOLASIB<br/>MAMIT<br/>AIZAWL</p>      | <ul style="list-style-type: none"> <li>Orange is picked when colour turn to dark green to pale yellow.</li> <li>Mandarins and sweet oranges normally take 240-280 days to arrive at maturity.</li> <li>Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days.</li> <li>Limes and lemons take 150-160 days for maturity.</li> <li>There may be 2 or 3 crops in a year in limes and lemons.</li> <li>The cold storage conditions for long term storage for different citrus fruits are available.</li> <li>Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.</li> </ul> |
|                                             |                             | <p>LUNGLEI<br/>LAWNGTLAI<br/>SAITAI</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 jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Passion Fruit</b>                        | <b>Harvesting<br/>stage</b> | <p>LUNGLEI<br/>LAWNGTLAI<br/>SAITAI</p>  | <ul style="list-style-type: none"> <li>The vines start yielding fruits after 10 months of planting and bearing reaches optimum by 16-18 months.</li> <li>There are two main periods of fruiting from August to December and March to May.</li> <li>Fruits take 80-85 days to reach maturity.</li> <li>Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.</li> <li>The fruits should be marketed quickly to prevent loss in weight and their appearance.</li> <li>The rind becomes wrinkled on drying</li> </ul>                                                               |



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|                 |                         |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|-------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                         |                              | but the pulp remains in good condition for several days.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                 |                         | <b>Fruit fly</b>             | <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 jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> </ul>                                                                                                                                                                                                          |
| <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> |
|                 |                         | <b>Banana Rhizome weevil</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 /l 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>Oil plam</b> | <b>Fruiting stage</b>   |                              | <p><b>Ablation:</b></p> <ul style="list-style-type: none"> <li>Ablation is the removal of male and female flowers produced in the early stages of plantation.</li> <li>This enables the plant to gain adequate stem girth, vigour and develop adequate root system. Flowering starts from 14<sup>th</sup> to 18<sup>th</sup> month after planting.</li> <li>Start ablation immediately after the</li> </ul>                                                                                   |



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|                                  |                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------|-------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  |                         |  | <p>appearance of inflorescences on the palms.</p> <ul style="list-style-type: none"> <li>They can be removed easily by hand pulling or using the tool developed at DOPR.</li> <li>Ablation can be extended up to 2-1/2 to 3 years depending upon the plant growth and vigour.</li> </ul> <p><b>Pollination:</b></p> <ul style="list-style-type: none"> <li>Wind and insects assist pollination, but wind pollination is not adequate.</li> <li>Effective pollinating insects like <i>Elaeidobius kamerunicus</i> helps in good pollination and fruit set.</li> <li>Release of this weevil after 2-1/2 year of planting is advisable.</li> <li>If the plants are not having good girth and vigour, release the weevils after 3 years.</li> </ul> |
| <b>Colocasia</b>                 | <b>Harvesting stage</b> |  | <ul style="list-style-type: none"> <li>Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.</li> <li>Crop will be ready for harvest in 6-8 months after planting.</li> <li>One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.</li> <li>After this, irrigation has to be withheld to hasten maturity.</li> <li>Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.</li> </ul>                                                                                                   |
| <b>Baibing (Local Vegetable)</b> | <b>Harvesting stage</b> |  | <ul style="list-style-type: none"> <li>Weed free near base of the plant.</li> <li>Harvest all mature fruits.</li> <li>Keep seeds for next year.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Tomato</b>                    | <b>Vegetative stage</b> |  | <ul style="list-style-type: none"> <li>Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



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|                 |                  |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                  | KOLASIB                          | <ul style="list-style-type: none"> <li>development.</li> <li>✚ Earthing up should also be done after 30 and 45 days of planting.</li> <li>✚ Staking is very important to support the plants to get more yields and quality should be done after one month of planting.</li> <li>✚ Mulching with black polythene film reduces weed growth, increase crop growth, early bearing and total yield.</li> </ul>                           |
|                 |                  | MAMIT<br>AIZAWL                  | <ul style="list-style-type: none"> <li>✚ Bacterial wilt</li> <li>✚ Uproot all infected plant and burn it.</li> <li>✚ This disease can be minimized by practicing crop rotation.</li> <li>✚ Soil dranching with Bordeaux mixture (1:1:100) after one month of planting is effective method to manage this disease.</li> </ul>                                                                                                        |
| Early Cole crop | Vegetative stage | SERCHHIP<br>LUNGLEI              | <ul style="list-style-type: none"> <li>✚ Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development.</li> <li>✚ To produce compact head, the plant should be earthing up 4-5 weeks after transplanting.</li> <li>✚ Water should be applied at every week interval.</li> <li>✚ Heavy irrigation is avoided at the time of maturity of head to avoid cracking.</li> </ul> |
|                 |                  | N deficiency                     | <ul style="list-style-type: none"> <li>✚ Deficiency is managed with the application of neem cake @0.4kg/m<sup>2</sup>.</li> <li>✚ Apply 2% urea solution when this symptom will occur.</li> </ul>                                                                                                                                                                                                                                   |
|                 |                  | P deficiency                     | <ul style="list-style-type: none"> <li>✚ Deficiency is managed with the application of phosphorus based fertilizer @ 0.4kg/m<sup>2</sup>.</li> <li>✚ Apply 4% DAP solution when this symptom will occur.</li> </ul>                                                                                                                                                                                                                 |
| Capsicum        | Nursery stage    | LAWNGTLAL<br>SAIHA<br>Poly house | <ul style="list-style-type: none"> <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> </ul>                                                                                                                                                                                                                      |



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|                            |                               |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|-------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                               |                             | <ul style="list-style-type: none"> <li>Line sowing of seeds (7-10cm)</li> <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>Onion</b>               | <b>Nursery stage</b>          | <b>Poly house</b>           | <ul style="list-style-type: none"> <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>                                                                                                                                                                                                                                                                  |
|                            |                               |                             | <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>French bean</b>         | <b>Sowing stage</b>           |                             | <ul style="list-style-type: none"> <li>Variable, healthy, well mature and pure seeds should be sown.</li> <li>Optimum spacing for pole type 60 cm X 30 cm.</li> <li>Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.</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 mixture.</li> </ul> |
|                            |                               | <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>Kharif Rice</b>         | <b>Physiological maturity</b> |                             | <ul style="list-style-type: none"> <li>Colour turns to green to light gold.</li> <li>Make drains corner side of the plot</li> </ul>                                                                                                                                                                                                                                                                                                                                                                              |



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|            |                    |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------|--------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | stage              |                                                              | <ul style="list-style-type: none"> <li>Drain out stagnant water to create stress for early maturity.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                               |
|            |                    | <b>Rat damage</b><br>                                        | <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 infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.</li> </ul> |
|            |                    |                                                              | <ul style="list-style-type: none"> <li>Pyrotechnics include a wide variety of noise-producing cartridges usually fired from rockets or rope bangers, or on aerodromes from modified pistols or shotguns, which produce a loud bang and emit flashes of light.</li> <li>Balloons tethered in a crop are an inexpensive method of bird deterrence.</li> <li>Kites and kite-hawks work as mobile predator models, which birds perceive as a threat.</li> </ul>                                                                   |
|            |                    | <b>Rice yellow stem borer</b><br>                            | <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/lit of water.</li> </ul>                                                                                                                                                                                                                                                        |
| <b>Pig</b> | <b>All stages</b>  | <b>Pig disease</b><br>                                       | <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><br> | 1. Culling of positive pigs or piglets.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|            | <b>Adult stage</b> | <b>Swine fever.</b><br>                                      | 2. Vaccination of pigs with SF vaccines at 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



# 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)



|                |                                  |                                     |                                                                                                                                                                                                                                                                                                               |
|----------------|----------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |                                  |                                     | months and yearly interval/6 month interval                                                                                                                                                                                                                                                                   |
| <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>         |                                     | <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>       | <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> </ul>                                                                                                                                                                                                             |
|                |                                  | <b>4-5<sup>th</sup> Weeks</b>       | <ul style="list-style-type: none"> <li>✚ Calcium tonic fortified with B<sub>12</sub></li> </ul>                                                                                                                                                                                                               |
|                | <b>Bacillary White Diarrhoea</b> | <b>All stage</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>                                                                                                                                                                         |



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# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Champhai

**Period:** 22 October – 26 October, 2016

**Bulletin No:** - 647/2016/ Bulletin/Mizo

**Date of issue:** 21<sup>st</sup> October, 2016

| Parameters        | 22.10.2016 | 23.10.2016   | 24.10.2016 | 25.10.2016 | 26.10.2016 |
|-------------------|------------|--------------|------------|------------|------------|
| Rainfall (mm)     | 0          | 0            | 0          | 0          | 0          |
| Max Temp (°C)     | 29         | 29           | 28         | 28         | 28         |
| Min Temp (°C)     | 14         | 14           | 14         | 13         | 13         |
| Cloud Coverage    | Clear sky  | Mainly clear | Clear sky  | Clear sky  | Clear sky  |
| Max RH (%)        | 99         | 99           | 98         | 99         | 99         |
| Min RH (%)        | 48         | 39           | 37         | 42         | 48         |
| Wind Speed (Kmph) | 3          | 4            | 3          | 2          | 3          |
| *Wind Direction   | S-E        | S-E          | S-E        | S-E        | S-E        |

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

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

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

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

**22<sup>nd</sup> October– 26<sup>th</sup> October, 2016 chhunga sik leh sa dinhmun tur tlangpui**

**Maximum Tem. (°C): 25-26°C**  
**Minimum Tem. (°C): 13-14°C**  
**Maximum RH (%):96-99%**  
**Minimum RH (%):45-63%**  
**Wind Direction: Southerly**  
**Cloud cover: Mainly cloudy**  
**Wind Speed: 2km/hr**

Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 28-29°C a ni ang a. A vawh lai berin 13-14°C ni tura beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 37-48% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam hawi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.

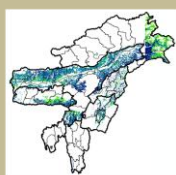
**Rainfall: 04.1 mm**

**Weekly cumulative rainfall: 00.0mm**

**NDVI for Mizoram**

North East Region

15 September 2016



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

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

Moderately wet mildly dry/mildly wet conditions



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| Thlai/ ran /sangha           | Spat zawng                 | Hmalakna tur/ rannung leh natna hrik awm thei te | Agricultural/Horticultural/ animal husbandry atana thurawn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------|----------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Khasi Mandarin and acid lime | Phun sawn (transplant) hun |                                                  | <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 tuiah chiaah tur a ni a, A tukah Lei hnawng awmna pot (moist pot) ah ½ inch vela thukah tuh tur a ni. Pot chu plastic bag emaw, sarangin emaw tuam a, Ni zung hmuh thatna leh hmun lumah a rawn to chhuah hma chu dah tur a ni. Chumi zawhah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.</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>vei chuan a natna kai ho chu kung hrisel ho lak atanga hla deuh takah phun sawn mai tur a ni.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                  | <p><b>Citrus leafminior and butterfly</b></p> <p>KOLASIB</p>            | <p>✚ 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).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Oil Palm | A tet lai        | <p>MAMIT</p> <p>AIZAWL</p> <p>CHAMPA</p> <p>SERCHHIP</p> <p>LUNGLEI</p> | <p>✚ Polythene bag (a dum ni thei se) 23*13 cm a lian ah khawi tur a ni.</p> <p>✚ Bag-ah chuan lei chung hang tha, lei pangngai leh ran ek a inzatz theuhin pawlh tur a ni a, 1cm vela khat loin chhun tur a ni.</p> <p>✚ Oil palm tiak chu 2.5cm vela thuk in phum tur.</p> <p>✚ Nitin tui pek tur.</p> <p>✚ A tiak pakhat tan leitha SSP, MOP leh <math>Mg_2SO_4</math> 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.</p> <p>✚ 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.</p> <p>✚ Leitha pek dawn hian lei chung chu tlema rih phut deuh tur a ni.</p> |
|          | Par a chhuah hma | <p>LAWNGTLAI</p> <p>SAIHA</p>                                           | <p>✚ A kung bul vel tihfai a, a zar tangkai lo/zar ro te paih tur a ni.</p> <p>✚ Kung khatah 600:200:100 (NPK) hi hmun hniah thena apply tur a ni.</p> <p>✚ 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.</p>                                                                                                                                                                                                                                                                                                                                                                                                               |



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|         |                 |                          |                                                                                                                                                                                                                                                                                                                                                                      |
|---------|-----------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                 |                          | <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>                                                                                                                                                                                                                              |
| Balhla  | A par lai       |                          | <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> |
|         |                 | Banana Rhizome weevil    | <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 paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.</li> </ul>                                                                                                                                                             |
|         | A hmin hun      |                          | <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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|             |                  |                                                        |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                  | KOLASIB                                                | <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> |
|             | Par a chhuah hma | MAMIT<br>AIZAWL<br>CHAMPAI                             | <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>                                                     |
|             |                  | Aphid<br>SERCHHIP                                      | <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 | A seng hunlai    | LUNGLEI                                                | <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 hralh 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>                |
|             |                  | Rat damage (Sazu in a tihchhiat)<br>LAWNGTLAI<br>SAIHA | <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   | Par a chhuah hma |                                                        | <ul style="list-style-type: none"> <li>A bul vel tihfai that a, a zar tangkai lo ho paih tur.</li> </ul>                                                                                                                                                                                                                                                        |



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|                      |                                   |                 |                                                                                                                                                                                                                                                                                                                                |
|----------------------|-----------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                                   | KOLASIB         | <ul style="list-style-type: none"> <li>A zung bul rih vur a leitha vawihnih pek tur.</li> <li>Tui tling tur vennis tui hawk luankawr mumal tak siam tur.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> </ul>                                          |
|                      |                                   | Corm borer      | <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>                                                                                                                                    |
| Cucurbitaceous crops | A seng hun                        | AIZAWL CHAMPAI  | <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 hnim thlawh 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> |
|                      |                                   | Fruit fly       | <ul style="list-style-type: none"> <li>Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.</li> </ul>                                                                                                                                                                                                      |
| Bawrhaisaiabe        | A par hma deuh atang a par thleng | LUNGLEI         | <ul style="list-style-type: none"> <li>A hnah ro vel pawthlak 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>          |
|                      |                                   | Okra leafroller | <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>                                                                                                                                     |
| Behlawi              | Rah a chhuah tan                  | LAWNGTLAI SAIHA | <ul style="list-style-type: none"> <li>A bul vel tihfai that a, a zar</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)



|                                     |                                         |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------|-----------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     | atanga seng hun thleng                  | KOLASIB                                                       | <p>tangkai lo ho paih tur.</p> <ul style="list-style-type: none"> <li>A zung bul rih vur a leitha vawihnih pek tur.</li> <li>Tui tling tur vennis tui hawk luankawr mumal tak siam tur.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim 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                            | Rah a chhuah tan atanga seng hun thleng | AIZAWL CHAMPAI SERCHHIP                                       | <ul style="list-style-type: none"> <li>A bul vel tihfai that a, a zar tangkai lo ho paih tur.</li> <li>Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnim to tam tur a veng.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, thlai thang a tichak bawk.</li> <li>Ram Hactare khata zauah leitha Urea 50kg hi hmun hnihah thenin vawihnih phul tur a ni.</li> <li>A rah puitling apiang seng zel tur.</li> </ul> |
|                                     |                                         | Shoot and fruit borer (thlai kung leh a rah bawm chi rannung) | <ul style="list-style-type: none"> <li>Natna in a tihchhiat tawh thlai peng lakthlak a paih 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>                                                                                                                                                                                                                                   |
|                                     |                                         | Brinjal leaf beetle                                           | <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) | Phun sawn hunlai                        | LAWNGTLAL SAIHA                                               | <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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|                                      |                                                          |                                              |                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------|----------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      |                                                          |                                              | <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>                                                                                                                                                                            |
| <b>Kharif rice</b>                   | <b>A peng insiamtur zawng zawng insiam zawh hnu lawk</b> | KOLASIB                                      | <ul style="list-style-type: none"> <li>A bul vela hnim 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>                                                                                                                                         |
| <b>Pre Kharif Rice</b>               | <b>A vui inseam tan lai</b>                              | MAMIT                                        | <ul style="list-style-type: none"> <li>A bul vela hnim 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 paih 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>                                                                                          |
| <b>Vaimim fur hma a seng chi</b>     | <b>A seng hun</b>                                        | SERCHHIP                                     | <ul style="list-style-type: none"> <li>A rah zawng zawng seng vek tur.</li> <li>Keh hun zawng ni saah phoro tur.</li> <li>Vaimim chi chu rapah rep tur.</li> </ul>                                                                                                                                                                                            |
| <b>Vaimim fur hma hreta seng chi</b> | <b>A kung puitlin hun</b>                                | LUNGLEI                                      | <ul style="list-style-type: none"> <li>A kung bul vela hnim vel tihfai that tur.</li> <li>Leitha nena rihvur tur.</li> <li>Leitha vawi hnih 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>                                                                                                                                                                                                                |
| <b>Sawhthing leh Aieng</b>           | <b>Par a chhuah hma</b>                                  | LAWNGTLAI SAIHA                              | <ul style="list-style-type: none"> <li>Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha<sup>-1</sup> Metolachlor (Dual) @1.5-2.0 kg a.i ha<sup>-1</sup>, Pendimethalin (Stomp)</li> </ul> |



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|                                                         |                                                |                                                            |                                                                                                                                                                                                                          |
|---------------------------------------------------------|------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                         |                                                |                                                            | @ 1-1.5kg a.i ha <sup>-1</sup> te hian hnimhnah lian lampang chi a veng a ni.                                                                                                                                            |
|                                                         |                                                | <b>Turmeric shoot borer (Aieng kung ei chhetu rannung)</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 lakkhawm a halral tur.</li> </ul>                  |
|                                                         |                                                | <b>Aphid and bug</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>   | 1. A natna vei vawk te chu thah a phum tur a ni.                                                                                                                                                                         |
|                                                         | <b>A puitling hun</b>                          | <b>Swine fever.</b>                                        | 2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur                                                                                                            |
| <b>Bawng</b>                                            | <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> |
| <b>Ar</b>                                               | <b>Kumtluanin</b>                              | <b>Ranikhet Disease.</b>                                   | 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.                                                                                                       |
|                                                         |                                                | <b>Coccidiosis</b>                                         | 2. Amprolium emaw coccidiostat pek tur.                                                                                                                                                                                  |



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Guwahati)



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Mizoram Centre, Kolasib- 796081, MIZORAM

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**District:** Kolasib

**Period:** 22 October – 26 October, 2016

**Bulletin No:** - 647/2016/ Bulletin/English

**Date of issue:** 21<sup>st</sup> October, 2016

| Parameters        | 22.10.2016 | 23.10.2016   | 24.10.2016 | 25.10.2016 | 26.10.2016 |
|-------------------|------------|--------------|------------|------------|------------|
| Rainfall (mm)     | 0          | 0            | 0          | 0          | 0          |
| Max Temp (°C)     | 24         | 24           | 24         | 23         | 23         |
| Min Temp (°C)     | 15         | 15           | 15         | 14         | 14         |
| Cloud Coverage    | Clear sky  | Mainly clear | Clear sky  | Clear sky  | Clear sky  |
| Max RH (%)        | 98         | 99           | 98         | 99         | 100        |
| Min RH (%)        | 45         | 39           | 36         | 39         | 43         |
| Wind Speed (Kmph) | 2          | 2            | 2          | 2          | 2          |
| *Wind Direction   | E          | E            | E          | E          | E          |

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

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

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

**Weather summary of the past three days**

**Maximum Tem. (°C):29-30°C**  
**Minimum Tem. (°C):21-22°C**  
**Maximum RH (%):94-100%**  
**Minimum RH (%):43-66%**  
**Wind Direction: Easterly**  
**Cloud cover: Mainly cloudy**  
**Wind speed: 2 km/hr**

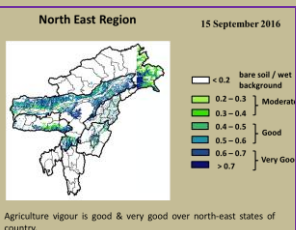
**Rainfall: 00.0 mm**

**Weather forecast valid from 22<sup>nd</sup> October, 2016 To 26<sup>th</sup> October, 2016.**

There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 23-24°C and 14-15°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 36-45%. Wind direction would be easterly with the wind speed of 2 km per hour. Mainly clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

**NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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| Main Crop/<br>Animal<br>/ Fisheries         | Stage                       | Cultural<br>practices/ Pest/<br>Diseases | Agricultural / Horticultural/ animal<br>husbandry advisories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|-----------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Khasi<br/>Mandarin and<br/>acid lime</b> | <b>Harvesting<br/>stage</b> | <p>KOLASIB<br/>MAMIT<br/>AIZAWL</p>      | <ul style="list-style-type: none"> <li>Orange is picked when colour turn to dark green to pale yellow.</li> <li>Mandarins and sweet oranges normally take 240-280 days to arrive at maturity.</li> <li>Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days.</li> <li>Limes and lemons take 150-160 days for maturity.</li> <li>There may be 2 or 3 crops in a year in limes and lemons.</li> <li>The cold storage conditions for long term storage for different citrus fruits are available.</li> <li>Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.</li> </ul> |
|                                             |                             | <b>Fruit fly</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 jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Passion Fruit</b>                        | <b>Harvesting<br/>stage</b> | <p>LUNGLEI<br/>LAWNGTLAI<br/>SAITAI</p>  | <ul style="list-style-type: none"> <li>The vines start yielding fruits after 10 months of planting and bearing reaches optimum by 16-18 months.</li> <li>There are two main periods of fruiting from August to December and March to May.</li> <li>Fruits take 80-85 days to reach maturity.</li> <li>Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.</li> <li>The fruits should be marketed quickly to prevent loss in weight and their appearance.</li> <li>The rind becomes wrinkled on drying</li> </ul>                                                               |



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|                 |                         |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|-------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                         |                              | but the pulp remains in good condition for several days.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                 |                         | <b>Fruit fly</b>             | <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 jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> </ul>                                                                                                                                                                                                          |
| <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> |
|                 |                         | <b>Banana Rhizome weevil</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 /l 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>Oil plam</b> | <b>Fruiting stage</b>   |                              | <p><b>Ablation:</b></p> <ul style="list-style-type: none"> <li>Ablation is the removal of male and female flowers produced in the early stages of plantation.</li> <li>This enables the plant to gain adequate stem girth, vigour and develop adequate root system. Flowering starts from 14<sup>th</sup> to 18<sup>th</sup> month after planting.</li> <li>Start ablation immediately after the</li> </ul>                                                                                   |



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|                  |                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------|-------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                         |  | <p>appearance of inflorescences on the palms.</p> <ul style="list-style-type: none"> <li>They can be removed easily by hand pulling or using the tool developed at DOPR.</li> <li>Ablation can be extended up to 2-1/2 to 3 years depending upon the plant growth and vigour.</li> </ul> <p><b>Pollination:</b></p> <ul style="list-style-type: none"> <li>Wind and insects assist pollination, but wind pollination is not adequate.</li> <li>Effective pollinating insects like <i>Elaeidobius kamerunicus</i> helps in good pollination and fruit set.</li> <li>Release of this weevil after 2-1/2 year of planting is advisable.</li> <li>If the plants are not having good girth and vigour, release the weevils after 3 years.</li> </ul> |
| <b>Colocasia</b> | <b>Harvesting stage</b> |  | <ul style="list-style-type: none"> <li>Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.</li> <li>Crop will be ready for harvest in 6-8 months after planting.</li> <li>One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.</li> <li>After this, irrigation has to be withheld to hasten maturity.</li> <li>Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.</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 ripped or over matured fruit.</li> <li>Keep extracted for sun dry and keep for next</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)



|                            |                                     |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|-------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                                     | <b>Shoot and fruit borer</b> | <ul style="list-style-type: none"> <li>year.</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/lit of water.</li> </ul>                                                                                                                                                                                                                                                                     |
| <b>Tomato</b>              | <b>Nursery stage</b>                | <b>Land preparation</b>      | <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>                                                                                                                                                                                                                         |
|                            |                                     | <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 mixture.</li> </ul> |
|                            |                                     | <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/lit of water.</li> </ul>                                                                                                                                                                                                                                                                                                                                              |
| <b>Kharif Rice</b>         | <b>Physiological maturity stage</b> |                              | <ul style="list-style-type: none"> <li>Colour turns to green to light gold.</li> <li>Make drains corner side of the plot</li> <li>Drain out stagnant water to create stress for early maturity.</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</li> </ul>                                                                                                                                                                                                                                                                            |



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|                                                                               |                         |                               |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------|-------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                               |                         |                               | and crop residues in/ around the fields.<br>✚ 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.                                                                                                                 |
|                                                                               |                         | <b>Bird damage</b>            | ✚ Pyrotechnics include a wide variety of noise-producing cartridges usually fired from rockets or rope bangers, or on aerodromes from modified pistols or shotguns, which produce a loud bang and emit flashes of light.<br>✚ Balloons tethered in a crop are an inexpensive method of bird deterrence.<br>✚ Kites and kite-hawks work as mobile predator models, which birds perceive as a threat. |
|                                                                               |                         | <b>Rice yellow stem borer</b> | ✚ Cut leaf tip from the seedling.<br>✚ Collect and destroy infected parts of the plant.<br>✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.                                                                                                                                                                                      |
| <b>Soybean</b>                                                                | <b>Vegetative stage</b> | <b>Zero tillage</b>           | ✚ Clear base of the plant.<br>✚ Earthing up soil near to plant for better support.                                                                                                                                                                                                                                                                                                                  |
| <b>Green gram, black gram and French bean (After Pre kharif rice harvest)</b> | <b>Vegetative stage</b> | <b>Zero tillage</b>           | ✚ Clear base of the plant.<br>✚ Earthing up soil near to plant for better support.<br>✚ For French bean use bamboo for staking or support.<br>✚ Use split dose of fertilizer for better fruiting for French bean.                                                                                                                                                                                   |
| <b>Pig</b>                                                                    | <b>All stages</b>       | <b>Pig disease</b>            | ✚ 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.                                                                                                                                                                                                 |
|                                                                               |                         | <b>Porcine Reproductive</b>   | 1. Culling of positive pigs or piglets.                                                                                                                                                                                                                                                                                                                                                             |



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|                |                                  |                                     |                                                                                                                                                                                                                                                                                                               |
|----------------|----------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |                                  | <b>Respiratory Syndrome (PRRS).</b> |                                                                                                                                                                                                                                                                                                               |
|                | <b>Adult stage</b>               | <b>Swine fever.</b>                 | 2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval                                                                                                                                                                                                                      |
| <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>         |                                     | <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>       | <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>         | ✚ <b>Coccidiosis-</b> Amprolium or coccidiostat                                                                                                                                                                                                                                                               |
|                |                                  | <b>4-5<sup>th</sup> Weeks</b>       | ✚ Calcium tonic fortified with B <sub>12</sub>                                                                                                                                                                                                                                                                |
|                | <b>Bacillary White Diarrhoea</b> | <b>All age</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>                                                                                                                                                                         |



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# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Kolasib

**Period:** 22 October – 26 October, 2016

**Bulletin No:** - 647/2016/ Bulletin/Mizo

**Date of issue:** 21<sup>st</sup> October, 2016

| Parameters        | 22.10.2016 | 23.10.2016   | 24.10.2016 | 25.10.2016 | 26.10.2016 |
|-------------------|------------|--------------|------------|------------|------------|
| Rainfall (mm)     | 0          | 0            | 0          | 0          | 0          |
| Max Temp (°C)     | 24         | 24           | 24         | 23         | 23         |
| Min Temp (°C)     | 15         | 15           | 15         | 14         | 14         |
| Cloud Coverage    | Clear sky  | Mainly clear | Clear sky  | Clear sky  | Clear sky  |
| Max RH (%)        | 98         | 99           | 98         | 99         | 100        |
| Min RH (%)        | 45         | 39           | 36         | 39         | 43         |
| Wind Speed (Kmph) | 2          | 2            | 2          | 2          | 2          |
| *Wind Direction   | E          | E            | E          | E          | E          |

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

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

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

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

**22<sup>nd</sup> October– 26<sup>th</sup> October, 2016 chhunga sik leh sa dinhmun tur tlangpui**

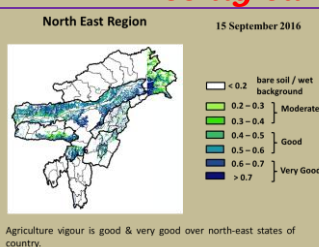
**Maximum Tem. (°C):29-30°C**  
**Minimum Tem. (°C):21-22°C**  
**Maximum RH (%):94-100%**  
**Minimum RH (%):43-66%**  
**Wind Direction: Easterly**  
**Cloud cover: Mainly cloudy**  
**Wind speed: 2 km/hr**

Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 23-24°C a ni ang a. A vawh lai berin 14-15°C ni tura beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 36-45% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin thlang lam leh chhak lam hawi zawngin a tleh rin a ni. Ni nga chung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.

**Rainfall: 00.0 mm**

**Weekly cumulative rainfall: 00.0mm**

**NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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| Thlai/ ran /sangha                  | Spat zawng                        | Hmalakna tur/ rannung leh natna hrik awm thei te | Agricultural/Horticultural/ animal husbandry atana thurawn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------|-----------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Khasi Mandarin and acid lime</b> | <b>Phun sawn (transplant) hun</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 tuiah chiaah tur a ni a, A tukah Lei hnawng awmna pot (moist pot) ah ½ inch vela thukah tuh tur a ni. Pot chu plastic bag emaw, sarangin emaw tuam a, Ni zung hmuh thatna leh hmun lumah a rawn to chhuah hma chu dah tur a ni. Chumi zawhah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.</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</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 leafminior and butterfly</b><br> | <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 inzatz 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> 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 hniah 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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|         |                 |                          |                                                                                                                                                                                                                                                                                                                                                                      |
|---------|-----------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                 |                          | <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>                                                                                                                                                                                                                              |
| Balhla  | A par lai       |                          | <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> |
|         |                 | Banana Rhizome weevil    | <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 paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.</li> </ul>                                                                                                                                                             |
|         | A hmin hun      |                          | <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)



|             |                  |                                                        |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                  | KOLASIB                                                | <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> |
|             | Par a chhuah hma | MAMIT<br>AIZAWL<br>CHAMPAI                             | <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>                                                     |
|             |                  | Aphid<br>SERCHHIP                                      | <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 | A seng hunlai    | LUNGLEI                                                | <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 hralh 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>                |
|             |                  | Rat damage (Sazu in a tihchhiat)<br>LAWNGTLAI<br>SAIHA | <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   | Par a chhuah hma |                                                        | <ul style="list-style-type: none"> <li>A bul vel tihfai that a, a zar tangkai lo ho paih tur.</li> </ul>                                                                                                                                                                                                                                                        |



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|                      |                                   |                 |                                                                                                                                                                                                                                                                                                                                |
|----------------------|-----------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                                   | KOLASIB         | <ul style="list-style-type: none"> <li>A zung bul rih vur a leitha vawihnih pek tur.</li> <li>Tui tling tur vennis tui hawk luankawr mumal tak siam tur.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> </ul>                                          |
|                      |                                   | Corm borer      | <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>                                                                                                                                    |
| Cucurbitaceous crops | A seng hun                        | AIZAWL CHAMPAI  | <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 hnim thlawh 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> |
|                      |                                   | Fruit fly       | <ul style="list-style-type: none"> <li>Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.</li> </ul>                                                                                                                                                                                                      |
| Bawrh Saiabe         | A par hma deuh atang a par thleng | LUNGLEI         | <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>         |
|                      |                                   | Okra leafroller | <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>                                                                                                                                     |
| Behlawi              | Rah a chhuah tan                  | LAWNGTLAI SAIHA | <ul style="list-style-type: none"> <li>A bul vel tihfai that a, a zar</li> </ul>                                                                                                                                                                                                                                               |

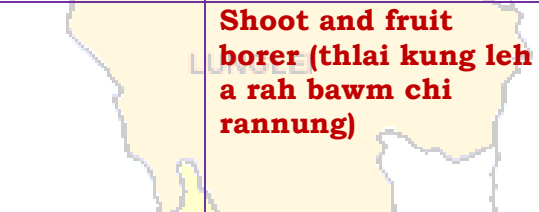


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Mizoram Centre, Kolasib- 796081, MIZORAM

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|                                            |                                                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | <b>atanga seng hun thleng</b>                  |    | <p>tangkai lo ho paih tur.</p> <ul style="list-style-type: none"> <li>A zung bul rih vur a leitha vawihnih pek tur.</li> <li>Tui tling tur vennis tui hawk luankawr mumal tak siam tur.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah baw a ni.</li> <li>A rah puitling apiang seng zel tur.</li> </ul>                                                                                                                               |
| <b>Bawkbawn</b>                            | <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 paih tur.</li> <li>Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnim to tam tur a veng.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, thlai thang a tichak baw.</li> <li>Ram Hactare khata zauah leitha Urea 50kg hi hmun hnihah thenin vawihnih phul tur a ni.</li> <li>A rah puitling apiang seng zel tur.</li> </ul> |
|                                            |                                                |  | <p><b>Shoot and fruit borer (thlai kung leh a rah bawm chi ranning)</b></p> <ul style="list-style-type: none"> <li>Natna in a tihchhiat tawh thlai peng lakthlak a paih tur.</li> <li>Ranning hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.</li> </ul>                                                                                                                                                      |
|                                            |                                                |  | <p><b>Brinjal leaf beetle</b></p> <ul style="list-style-type: none"> <li>Ranning thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.</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> </ul>                                                                                                                                                                                                                                                                                                                 |



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|                                      |                                                          |                                              |                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------|----------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      |                                                          |                                              | <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>                                                                                                                                                                            |
| <b>Kharif rice</b>                   | <b>A peng insiamtur zawng zawng insiam zawh hnu lawk</b> | KOLASIB                                      | <ul style="list-style-type: none"> <li>A bul vela hnim 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>                                                                                                                                         |
| <b>Pre Kharif Rice</b>               | <b>A vui inseam tan lai</b>                              | MAMIT                                        | <ul style="list-style-type: none"> <li>A bul vela hnim 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 paih 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>                                                                                          |
| <b>Vaimim fur hma a seng chi</b>     | <b>A seng hun</b>                                        | SERCHHIP                                     | <ul style="list-style-type: none"> <li>A rah zawng zawng seng vek tur.</li> <li>Keh hun zawng ni saah phoro tur.</li> <li>Vaimim chi chu rapah rep tur.</li> </ul>                                                                                                                                                                                            |
| <b>Vaimim fur hma hreta seng chi</b> | <b>A kung puitlin hun</b>                                | LUNGLEI                                      | <ul style="list-style-type: none"> <li>A kung bul vela hnim vel tihfai that tur.</li> <li>Leitha nena rihvur tur.</li> <li>Leitha vawi hnih 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>                                                                                                                                                                                                                |
| <b>Sawhthing leh Aieng</b>           | <b>Par a chhuah hma</b>                                  | LAWNGTLAI SAIHA                              | <ul style="list-style-type: none"> <li>Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha<sup>-1</sup> Metolachlor (Dual) @1.5-2.0 kg a.i ha<sup>-1</sup>, Pendimethalin (Stomp)</li> </ul> |



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|                                                         |                                                |                                                            |                                                                                                                                                                                                                          |
|---------------------------------------------------------|------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                         |                                                |                                                            | @ 1-1.5kg a.i ha <sup>-1</sup> te hian hnimhnah lian lampang chi a veng a ni.                                                                                                                                            |
|                                                         |                                                | <b>Turmeric shoot borer (Aieng kung ei chhetu rannung)</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 lakkhawm a halral tur.</li> </ul>                  |
|                                                         |                                                | <b>Aphid and bug</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>   | 1. A natna vei vawk te chu thah a phum tur a ni.                                                                                                                                                                         |
|                                                         | <b>A puitling hun</b>                          | <b>Swine fever.</b>                                        | 2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur                                                                                                            |
| <b>Bawng</b>                                            | <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> |
| <b>Ar</b>                                               | <b>Kumtluanin</b>                              | <b>Ranikhet Disease.</b>                                   | 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.                                                                                                       |
|                                                         |                                                | <b>Coccidiosis</b>                                         | 2. Amprolium emaw coccidiostat pek tur.                                                                                                                                                                                  |



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Mizoram Centre, Kolasib- 796081, MIZORAM

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**District:** Lawngtlai

**Period:** 22 October – 26 October, 2016

**Bulletin No:** - 647/2016/ Bulletin/English

**Date of issue:** 21<sup>st</sup> October, 2016

| Parameters               | 22.10.2016   | 23.10.2016      | 24.10.2016 | 25.10.2016   | 26.10.2016 |
|--------------------------|--------------|-----------------|------------|--------------|------------|
| <b>Rainfall (mm)</b>     | 5            | 3               | 0          | 0            | 0          |
| <b>Max Temp (°C)</b>     | 24           | 24              | 26         | 26           | 26         |
| <b>Min Temp (°C)</b>     | 13           | 13              | 15         | 15           | 15         |
| <b>Cloud Coverage</b>    | Mainly clear | Partially clear | Clear sky  | Mainly clear | Clear sky  |
| <b>Max RH (%)</b>        | 98           | 97              | 96         | 96           | 97         |
| <b>Min RH (%)</b>        | 54           | 50              | 46         | 48           | 51         |
| <b>Wind Speed (Kmph)</b> | 4            | 4               | 4          | 2            | 2          |
| <b>*Wind Direction</b>   | N-E          | N-E             | N-E        | N-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</b><br>(430.2mm)   | <b>Champhai- 105.48mm</b><br>(359.89mm) | <b>Saiha- 307.40 mm</b><br>(507.7mm) | <b>Kolasib- 236.00mm</b><br>(428.1mm)  |
| <b>Lawngtlai-291.20mm</b><br>(453.1mm) | <b>Lunglei-326.00mm</b><br>(465.14mm)   | <b>Mamit-204.87mm</b><br>(442.80mm)  | <b>Serchhip-411.72mm</b><br>(259.62mm) |

**Weather summary of the past three days**

**Maximum Tem. (°C):26-28°C**  
**Minimum Tem. (°C): 16-18°C**  
**Maximum RH (%):92-99%**  
**Minimum RH (%):65-84%**  
**Wind Direction: Southerly**  
**Cloud cover: Mainly cloudy**  
**Wind speed: 2 km/hr**

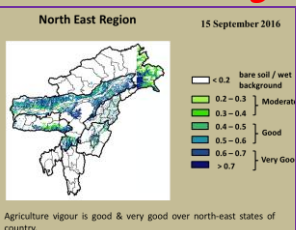
**Rainfall: 00.0 mm**

**Weather forecast valid from 22<sup>nd</sup> October, 2016 To 26<sup>th</sup> October, 2016.**

There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 24-26°C and 13-15°C. Maximum relative humidity is expected in the range of 96-98% and minimum may from 46-54%. Wind direction would be northeasterly to easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

**NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



| Main Crop/<br>Animal<br>/ Fisheries         | Stage                       | Cultural<br>practices/ Pest/<br>Diseases | Agricultural / Horticultural/ animal<br>husbandry advisories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|-----------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Khasi<br/>Mandarin and<br/>acid lime</b> | <b>Harvesting<br/>stage</b> | <p>KOLASIB<br/>MAMIT<br/>AIZAWL</p>      | <ul style="list-style-type: none"> <li>Orange is picked when colour turn to dark green to pale yellow.</li> <li>Mandarins and sweet oranges normally take 240-280 days to arrive at maturity.</li> <li>Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days.</li> <li>Limes and lemons take 150-160 days for maturity.</li> <li>There may be 2 or 3 crops in a year in limes and lemons.</li> <li>The cold storage conditions for long term storage for different citrus fruits are available.</li> <li>Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.</li> </ul> |
|                                             |                             | <p>LUNGLEI<br/>LAWNGTLAI<br/>SAITAI</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 jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Passion Fruit</b>                        | <b>Harvesting<br/>stage</b> | <p>LUNGLEI<br/>LAWNGTLAI<br/>SAITAI</p>  | <ul style="list-style-type: none"> <li>The vines start yielding fruits after 10 months of planting and bearing reaches optimum by 16-18 months.</li> <li>There are two main periods of fruiting from August to December and March to May.</li> <li>Fruits take 80-85 days to reach maturity.</li> <li>Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.</li> <li>The fruits should be marketed quickly to prevent loss in weight and their appearance.</li> <li>The rind becomes wrinkled on drying</li> </ul>                                                               |



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|                 |                         |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|-------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                         |                              | but the pulp remains in good condition for several days.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                 |                         | <b>Fruit fly</b>             | <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 jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> </ul>                                                                                                                                                                                                          |
| <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> |
|                 |                         | <b>Banana Rhizome weevil</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 /l 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>Oil plam</b> | <b>Fruiting stage</b>   |                              | <p><b>Ablation:</b></p> <ul style="list-style-type: none"> <li>Ablation is the removal of male and female flowers produced in the early stages of plantation.</li> <li>This enables the plant to gain adequate stem girth, vigour and develop adequate root system. Flowering starts from 14<sup>th</sup> to 18<sup>th</sup> month after planting.</li> <li>Start ablation immediately after the</li> </ul>                                                                                   |



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|                  |                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------|-------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                         |  | <p>appearance of inflorescences on the palms.</p> <ul style="list-style-type: none"> <li>They can be removed easily by hand pulling or using the tool developed at DOPR.</li> <li>Ablation can be extended up to 2-1/2 to 3 years depending upon the plant growth and vigour.</li> </ul> <p><b>Pollination:</b></p> <ul style="list-style-type: none"> <li>Wind and insects assist pollination, but wind pollination is not adequate.</li> <li>Effective pollinating insects like <i>Elaeidobius kamerunicus</i> helps in good pollination and fruit set.</li> <li>Release of this weevil after 2-1/2 year of planting is advisable.</li> <li>If the plants are not having good girth and vigour, release the weevils after 3 years.</li> </ul> |
| <b>Colocasia</b> | <b>Harvesting stage</b> |  | <ul style="list-style-type: none"> <li>Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.</li> <li>Crop will be ready for harvest in 6-8 months after planting.</li> <li>One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.</li> <li>After this, irrigation has to be withheld to hasten maturity.</li> <li>Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.</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 ripped or over matured fruit.</li> <li>Keep extracted for sun dry and keep for next</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



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Mizoram Centre, Kolasib- 796081, MIZORAM

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|                            |                                     |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|-------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                                     | <b>Shoot and fruit borer</b> | <ul style="list-style-type: none"> <li>year.</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/lit of water.</li> </ul>                                                                                                                                                                                                                                                                     |
| <b>Tomato</b>              | <b>Nursery stage</b>                | <b>Land preparation</b>      | <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>                                                                                                                                                                                                                         |
|                            |                                     | <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 mixture.</li> </ul> |
|                            |                                     | <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/lit of water.</li> </ul>                                                                                                                                                                                                                                                                                                                                              |
| <b>Kharif Rice</b>         | <b>Physiological maturity stage</b> |                              | <ul style="list-style-type: none"> <li>Colour turns to green to light gold.</li> <li>Make drains corner side of the plot</li> <li>Drain out stagnant water to create stress for early maturity.</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</li> </ul>                                                                                                                                                                                                                                                                            |



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|                                                                               |                         |                               |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------|-------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                               |                         |                               | and crop residues in/ around the fields.<br>✚ 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.                                                                                                                 |
|                                                                               |                         | <b>Bird damage</b>            | ✚ Pyrotechnics include a wide variety of noise-producing cartridges usually fired from rockets or rope bangers, or on aerodromes from modified pistols or shotguns, which produce a loud bang and emit flashes of light.<br>✚ Balloons tethered in a crop are an inexpensive method of bird deterrence.<br>✚ Kites and kite-hawks work as mobile predator models, which birds perceive as a threat. |
|                                                                               |                         | <b>Rice yellow stem borer</b> | ✚ Cut leaf tip from the seedling.<br>✚ Collect and destroy infected parts of the plant.<br>✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.                                                                                                                                                                                      |
| <b>Soybean</b>                                                                | <b>Vegetative stage</b> | <b>Zero tillage</b>           | ✚ Clear base of the plant.<br>✚ Earthing up soil near to plant for better support.                                                                                                                                                                                                                                                                                                                  |
| <b>Green gram, black gram and French bean (After Pre kharif rice harvest)</b> | <b>Vegetative stage</b> | <b>Zero tillage</b>           | ✚ Clear base of the plant.<br>✚ Earthing up soil near to plant for better support.<br>✚ For French bean use bamboo for staking or support.<br>✚ Use split dose of fertilizer for better fruiting for French bean.                                                                                                                                                                                   |
| <b>Pig</b>                                                                    | <b>All stages</b>       | <b>Pig disease</b>            | ✚ 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.                                                                                                                                                                                                 |
|                                                                               |                         | <b>Porcine Reproductive</b>   | 1. Culling of positive pigs or piglets.                                                                                                                                                                                                                                                                                                                                                             |



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|                |                                  |                                     |                                                                                                                                                                                                                                                                                                               |
|----------------|----------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |                                  | <b>Respiratory Syndrome (PRRS).</b> |                                                                                                                                                                                                                                                                                                               |
|                | <b>Adult stage</b>               | <b>Swine fever.</b>                 | 2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval                                                                                                                                                                                                                      |
| <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>         |                                     | <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>       | <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>         | ✚ <b>Coccidiosis-</b> Amprolium or coccidiostat                                                                                                                                                                                                                                                               |
|                |                                  | <b>4-5<sup>th</sup> Weeks</b>       | ✚ Calcium tonic fortified with B <sub>12</sub>                                                                                                                                                                                                                                                                |
|                | <b>Bacillary White Diarrhoea</b> | <b>All age</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>                                                                                                                                                                         |



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



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# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Lawngtlai

**Period:** 22 October – 26 October, 2016

**Bulletin No:** - 647/2016/ Bulletin/Mizo

**Date of issue:** 21<sup>st</sup> October, 2016

| Parameters        | 22.10.2016   | 23.10.2016      | 24.10.2016 | 25.10.2016   | 26.10.2016 |
|-------------------|--------------|-----------------|------------|--------------|------------|
| Rainfall (mm)     | 5            | 3               | 0          | 0            | 0          |
| Max Temp (°C)     | 24           | 24              | 26         | 26           | 26         |
| Min Temp (°C)     | 13           | 13              | 15         | 15           | 15         |
| Cloud Coverage    | Mainly clear | Partially clear | Clear sky  | Mainly clear | Clear sky  |
| Max RH (%)        | 98           | 97              | 96         | 96           | 97         |
| Min RH (%)        | 54           | 50              | 46         | 48           | 51         |
| Wind Speed (Kmph) | 4            | 4               | 4          | 2            | 2          |
| *Wind Direction   | N-E          | N-E             | N-E        | N-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)**

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

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

**22<sup>nd</sup> October– 26<sup>th</sup> October, 2016 chhunga sik leh sa dinhmun tur tlangpui**

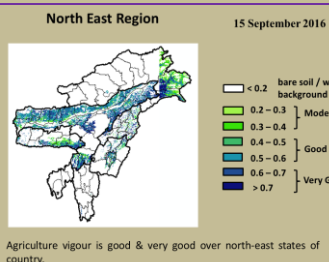
**Maximum Tem. (°C):26-28°C**  
**Minimum Tem. (°C): 16-18°C**  
**Maximum RH (%):92-99%**  
**Minimum RH (%):65-84%**  
**Wind Direction: Southerly**  
**Cloud cover: Mainly cloudy**  
**Wind speed: 2 km/hr**

Ni 5 lo awm turah hian ruahtui tam vak lo a tlak beisei a ni. Khua a lum lai berin 24-26°C a ni ang a. A vawh lai berin 13-15°C ni tura beisei a ni. RH san lai berin 96-98% leh a hniam lai berin 46-54% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam hawi zawngin a tleh rin a ni. Ni nga chhung lo awm tur ah hian a tlangpuiin chhum a lan deuh reng beisei a ni.

**Rainfall: 00.0 mm**

**Weekly cumulative rainfall: 00.0 mm**

**NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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| Thlai/ ran /sangha           | Spat zawng                 | Hmalakna tur/ rannung leh natna hrik awm thei te | Agricultural/Horticultural/ animal husbandry atana thurawn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------|----------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Khasi Mandarin and acid lime | Phun sawn (transplant) hun |                                                  | <ul style="list-style-type: none"> <li>Heng ser tiak te hi Ni zung hmuh thatna, thli laka him hmuna 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 chiaah tur a ni a, A tukah Lei hnawng awmna pot (moist pot) ah ½ inch vela thukah tuh tur a ni. Pot chu plastic bag emaw, sarangin emaw tuam a, Ni zung hmuh thatna leh hmun lumah a rawn to chhuah hma chu dah tur a ni. Chumi zawhah a tuamna chu phelh a, ni hmuh thatna hmuna dah leh tur a ni.</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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Mizoram Centre, Kolasib- 796081, MIZORAM

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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 leafminior and butterfly</b><br> | <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 inzatz 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> 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 hniah 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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|         |                 |  |                                                                                                                                                                                                                                                                                                                                                                      |
|---------|-----------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                 |  | <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>                                                                                                                                                                                                                              |
| Balhla  | A par lai       |  | <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> |
|         |                 |  | <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>                                                                                               |
|         |                 |  | <ul style="list-style-type: none"> <li>Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.</li> </ul>                                                                                                                                                             |
|         | A hmin hun      |  | <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>                                                                                                             |
|         |                 |  | <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>                                                                                                                                                         |
|         |                 |  | <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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|             |                  |                                                        |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                  | KOLASIB                                                | <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> |
|             | Par a chhuah hma | MAMIT<br>AIZAWL<br>CHAMPAI                             | <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>                                                     |
|             |                  | Aphid<br>SERCHHIP                                      | <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 | A seng hunlai    | LUNGLEI                                                | <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 hralh 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>                |
|             |                  | Rat damage (Sazu in a tihchhiat)<br>LAWNGTLAI<br>SAIHA | <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   | Par a chhuah hma |                                                        | <ul style="list-style-type: none"> <li>A bul vel tihfai that a, a zar tangkai lo ho paih tur.</li> </ul>                                                                                                                                                                                                                                                        |



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Mizoram Centre, Kolasib- 796081, MIZORAM

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|                      |                                   |                 |                                                                                                                                                                                                                                                                                                                                |
|----------------------|-----------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                                   | KOLASIB         | <ul style="list-style-type: none"> <li>A zung bul rih vur a leitha vawihnih pek tur.</li> <li>Tui tling tur vennisan tui hawk luankawr mumal tak siam tur.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, a thar hlawk phah bawk a ni.</li> </ul>                                        |
|                      |                                   | Corm borer      | <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>                                                                                                                                    |
| Cucurbitaceous crops | A seng hun                        | AIZAWL          | <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 hnim thlawh 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> |
|                      |                                   | Fruit fly       | <ul style="list-style-type: none"> <li>Huan zau deuhah chuan carbaryl 0.2% emaw malathion 0.15% hman tur a ni.</li> </ul>                                                                                                                                                                                                      |
| Bawrhaisaiabe        | A par hma deuh atang a par thleng | LUNGLEI         | <ul style="list-style-type: none"> <li>A hnah ro vel pawthlak 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>          |
|                      |                                   | Okra leafroller | <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>                                                                                                                                     |
| Behlawi              | Rah a chhuah tan                  | LAWNGTLAI       | <ul style="list-style-type: none"> <li>A bul vel tihfai that a, a zar</li> </ul>                                                                                                                                                                                                                                               |

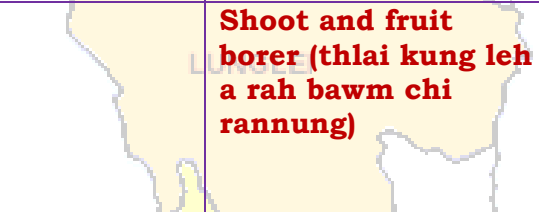


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Mizoram Centre, Kolasib- 796081, MIZORAM

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|                                            |                                                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | <b>atanga seng hun thleng</b>                  |    | <p>tangkai lo ho paih tur.</p> <ul style="list-style-type: none"> <li>A zung bul rih vur a leitha vawihnih pek tur.</li> <li>Tui tling tur vennis tui hawk luankawr mumal tak siam tur.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim 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>Bawkbawn</b>                            | <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 paih tur.</li> <li>Thali a to hmain Basalin 0.5ml tui litre khatah pawlh a, leia kah hian grass lampang chi hnim to tam tur a veng.</li> <li>A zung bul vela Lei hi polythene duma khuh hian hnim to tur lakah a veng a, thlai thang a tichak bawk.</li> <li>Ram Hactare khata zauah leitha Urea 50kg hi hmun hnihah thenin vawihnih phul tur a ni.</li> <li>A rah puitling apiang seng zel tur.</li> </ul> |
|                                            |                                                |  | <p><b>Shoot and fruit borer (thlai kung leh a rah bawm chi ranning)</b></p> <ul style="list-style-type: none"> <li>Natna in a tihchhiat tawh thlai peng lakthlak a paih tur.</li> <li>Ranning hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.</li> </ul>                                                                                                                                                       |
|                                            |                                                |  | <p><b>Brinjal leaf beetle</b></p> <ul style="list-style-type: none"> <li>Ranning thahna hlo Acephate (Orthene) emaw carbaryl (Sevin)emaw fipronil (Over 'N Out) emaw pyrethrins emaw, 1-1.5ml hi tui litre khatah pawlh a, kah tur.</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> </ul>                                                                                                                                                                                                                                                                                                                  |



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|                               |                                                   |                                              |                                                                                                                                                                                                                                                                                                                                                               |
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|                               |                                                   |                                              | <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>                                                                                                                                                                            |
| Kharif rice                   | A peng insiamtur zawng zawng insiam zawh hnu lawk | KOLASIB                                      | <ul style="list-style-type: none"> <li>A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur.</li> <li>Leitha vawihnih pek tur.</li> <li>Tui tling tur vennis tui hawk luanna mumal tak siam tur.</li> </ul>                                                                                                                                         |
| Pre Kharif Rice               | A vui inseam tan lai                              | MAMIT                                        | <ul style="list-style-type: none"> <li>A bul vela hnim leh thlaidang lo to ve palh te pawh thlawn tur.</li> <li>Leitha vawihnih pek tur.</li> <li>Tui tling tur vennis 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 paih 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     | A seng hun                                        | SERCHHIP                                     | <ul style="list-style-type: none"> <li>A rah zawng 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 | A kung puitlin hun                                | LUNGLEI                                      | <ul style="list-style-type: none"> <li>A kung bul vela hnim vel tihfai that tur.</li> <li>Leitha nena rihvur tur.</li> <li>Leitha vawi hnih 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           | Par a chhuah hma                                  | LAWNGTLAI SAIHA                              | <ul style="list-style-type: none"> <li>Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha<sup>-1</sup> Metolachlor (Dual) @1.5-2.0 kg a.i ha<sup>-1</sup>, Pendimethalin (Stomp)</li> </ul> |



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|                                                         |                                                |                                                            |                                                                                                                                                                                                                          |
|---------------------------------------------------------|------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                         |                                                |                                                            | @ 1-1.5kg a.i ha <sup>-1</sup> te hian hnimhnah lian lampang chi a veng a ni.                                                                                                                                            |
|                                                         |                                                | <b>Turmeric shoot borer (Aieng kung ei chhetu rannung)</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 lakkhawm a halral tur.</li> </ul>                  |
|                                                         |                                                | <b>Aphid and bug</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>   | 1. A natna vei vawk te chu thah a phum tur a ni.                                                                                                                                                                         |
|                                                         | <b>A puitling hun</b>                          | <b>Swine fever.</b>                                        | 2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur                                                                                                            |
| <b>Bawng</b>                                            | <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> |
| <b>Ar</b>                                               | <b>Kumtluanin</b>                              | <b>Ranikhet Disease.</b>                                   | 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.                                                                                                       |
|                                                         |                                                | <b>Coccidiosis</b>                                         | 2. Amprolium emaw coccidiostat pek tur.                                                                                                                                                                                  |



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## Expert committee members:

|                         |   |                                                   |                                                                                          |
|-------------------------|---|---------------------------------------------------|------------------------------------------------------------------------------------------|
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# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Lunglei

**Period:** 22 October – 26 October, 2016

**Bulletin No:** - 647/2016/ Bulletin/English

**Date of issue:** 21<sup>st</sup> October, 2016

| Parameters               | 22.10.2016 | 23.10.2016   | 24.10.2016 | 25.10.2016 | 26.10.2016 |
|--------------------------|------------|--------------|------------|------------|------------|
| <b>Rainfall (mm)</b>     | 0          | 0            | 0          | 0          | 0          |
| <b>Max Temp (°C)</b>     | 27         | 27           | 27         | 26         | 26         |
| <b>Min Temp (°C)</b>     | 15         | 15           | 15         | 14         | 14         |
| <b>Cloud Coverage</b>    | Clear sky  | Mainly clear | Clear sky  | Clear sky  | Clear sky  |
| <b>Max RH (%)</b>        | 99         | 99           | 98         | 99         | 99         |
| <b>Min RH (%)</b>        | 44         | 38           | 35         | 40         | 46         |
| <b>Wind Speed (Kmph)</b> | 3          | 4            | 3          | 2          | 2          |
| <b>*Wind Direction</b>   | N-E        | N-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</b><br>(430.2mm)   | <b>Champhai- 105.48mm</b><br>(359.89mm) | <b>Saiha- 307.40 mm</b><br>(507.7mm) | <b>Kolasib- 236.00mm</b><br>(428.1mm)  |
| <b>Lawngtlai-291.20mm</b><br>(453.1mm) | <b>Lunglei-326.00mm</b><br>(465.14mm)   | <b>Mamit-204.87mm</b><br>(442.80mm)  | <b>Serchhip-411.72mm</b><br>(259.62mm) |

**Weather summary of the past three days**

**Maximum Tem. (°C): 28-30°C**  
**Minimum Tem. (°C): 14-17°C**  
**Maximum RH (%): 98-100%**  
**Minimum RH (%): 46-64%**  
**Wind Direction: Southerly**  
**Cloud cover: Mainly cloudy**  
**Wind Speed: 2km/hr**

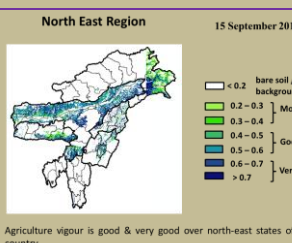
**Rainfall: 00.0 mm**

**Weather forecast valid from 22<sup>nd</sup> October, 2016 To 26<sup>th</sup> October, 2016.**

There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 26-27°C and 14-15°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 38-46%. Wind direction would be northeasterly to southeasterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

**NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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| Main Crop/<br>Animal<br>/ Fisheries         | Stage                       | Cultural<br>practices/ Pest/<br>Diseases | Agricultural / Horticultural/ animal<br>husbandry advisories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|-----------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Khasi<br/>Mandarin and<br/>acid lime</b> | <b>Harvesting<br/>stage</b> | <p>KOLASIB<br/>MAMIT<br/>AIZAWL</p>      | <ul style="list-style-type: none"> <li>Orange is picked when colour turn to dark green to pale yellow.</li> <li>Mandarins and sweet oranges normally take 240-280 days to arrive at maturity.</li> <li>Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days.</li> <li>Limes and lemons take 150-160 days for maturity.</li> <li>There may be 2 or 3 crops in a year in limes and lemons.</li> <li>The cold storage conditions for long term storage for different citrus fruits are available.</li> <li>Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.</li> </ul> |
|                                             |                             | <b>Fruit fly</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 jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Passion Fruit</b>                        | <b>Harvesting<br/>stage</b> | <p>LUNGLEI<br/>LAWNGTLAI<br/>SAITAI</p>  | <ul style="list-style-type: none"> <li>The vines start yielding fruits after 10 months of planting and bearing reaches optimum by 16-18 months.</li> <li>There are two main periods of fruiting from August to December and March to May.</li> <li>Fruits take 80-85 days to reach maturity.</li> <li>Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.</li> <li>The fruits should be marketed quickly to prevent loss in weight and their appearance.</li> <li>The rind becomes wrinkled on drying</li> </ul>                                                               |



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|                 |                         |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|-------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                         |                              | but the pulp remains in good condition for several days.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                 |                         | <b>Fruit fly</b>             | <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 jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> </ul>                                                                                                                                                                                                          |
| <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> |
|                 |                         | <b>Banana Rhizome weevil</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 /l 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>Oil plam</b> | <b>Fruiting stage</b>   |                              | <p><b>Ablation:</b></p> <ul style="list-style-type: none"> <li>Ablation is the removal of male and female flowers produced in the early stages of plantation.</li> <li>This enables the plant to gain adequate stem girth, vigour and develop adequate root system. Flowering starts from 14<sup>th</sup> to 18<sup>th</sup> month after planting.</li> <li>Start ablation immediately after the</li> </ul>                                                                                   |



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|                                  |                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------|-------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  |                         |  | <p>appearance of inflorescences on the palms.</p> <ul style="list-style-type: none"> <li>They can be removed easily by hand pulling or using the tool developed at DOPR.</li> <li>Ablation can be extended up to 2-1/2 to 3 years depending upon the plant growth and vigour.</li> </ul> <p><b>Pollination:</b></p> <ul style="list-style-type: none"> <li>Wind and insects assist pollination, but wind pollination is not adequate.</li> <li>Effective pollinating insects like <i>Elaeidobius kamerunicus</i> helps in good pollination and fruit set.</li> <li>Release of this weevil after 2-1/2 year of planting is advisable.</li> <li>If the plants are not having good girth and vigour, release the weevils after 3 years.</li> </ul> |
| <b>Colocasia</b>                 | <b>Harvesting stage</b> |  | <ul style="list-style-type: none"> <li>Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.</li> <li>Crop will be ready for harvest in 6-8 months after planting.</li> <li>One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.</li> <li>After this, irrigation has to be withheld to hasten maturity.</li> <li>Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.</li> </ul>                                                                                                   |
| <b>Baibing (Local Vegetable)</b> | <b>Harvesting stage</b> |  | <ul style="list-style-type: none"> <li>Weed free near base of the plant.</li> <li>Harvest all mature fruits.</li> <li>Keep seeds for next year.</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> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |



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|                 |                  |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                  |                       | <ul style="list-style-type: none"> <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 phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.</li> </ul>                                                                                                                                                                                                                                                                                                                                            |
| Brinjal         | Harvesting stage | KOLASIB               | <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 ripped or over matured fruit.</li> <li>Keep extracted for sun dry and keep for next year.</li> </ul>                                                                                                                                                                                                                                                    |
|                 |                  | MAMIT                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 |                  | Shoot and fruit borer | <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 phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.</li> </ul>                                                                                                                                                                                                                                                                                  |
|                 |                  | AIZAWL                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tomato          | Vegetative stage | SERCHHIP              | <ul style="list-style-type: none"> <li>Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development.</li> <li>Earthing up should also be done after 30 and 45 days of planting.</li> <li>Staking is very important to support the plants to get more yields and quality should be done after one month of planting.</li> <li>Mulching with black polythene film reduces weed growth, increase crop growth, early bearing and total yield.</li> </ul> |
|                 |                  | LUNGLEI               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 |                  | Bacterial wilt        | <ul style="list-style-type: none"> <li>Uproot all infected plant and burn it.</li> <li>This disease can be minimized by practicing crop rotation.</li> <li>Soil dranching with Bordeaux mixture (1:1:100) after one month of planting is effective method to manage this disease.</li> </ul>                                                                                                                                                                                                                   |
|                 |                  | LAWNGTLAI             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Early Cole crop | Vegetative stage | SAIHA                 | <ul style="list-style-type: none"> <li>Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development.</li> <li>To produce compact head, the</li> </ul>                                                                                                                                                                                                                                                                                                |



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|                    |                      |                   |                                                                                                                                                                                                                                                                       |
|--------------------|----------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                      | KOLASIB           | <p>plant should be earthing up 4-5 weeks after transplanting.</p> <ul style="list-style-type: none"> <li>Water should be applied at every week interval.</li> <li>Heavy irrigation is avoided at the time of maturity of head to avoid cracking.</li> </ul>           |
|                    |                      | N deficiency      | <ul style="list-style-type: none"> <li>Deficiency is managed with the application of neem cake @0.4kg/m<sup>2</sup>.</li> <li>Apply 2% urea solution when this symptom will occur.</li> </ul>                                                                         |
|                    |                      | P deficiency      | <ul style="list-style-type: none"> <li>Deficiency is managed with the application of phosphorus based fertilizer @ 0.4kg/m<sup>2</sup>.</li> <li>Apply 4% DAP solution when this symptom will occur.</li> </ul>                                                       |
| <b>Capsicum</b>    | <b>Nursery stage</b> | <b>Poly house</b> | <ul style="list-style-type: none"> <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>                       |
|                    |                      | SEERCHHIP         | <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>Onion</b>       | <b>Nursery stage</b> | <b>Poly house</b> | <ul style="list-style-type: none"> <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>                       |
|                    |                      | LUNGLEI           | <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>French bean</b> | <b>Sowing stage</b>  | LAWNGTLAI         | <ul style="list-style-type: none"> <li>Variable, healthy, well mature and pure seeds should be sown.</li> <li>Optimum spacing for pole type 60 cm X 30 cm.</li> <li>Before sowing seed should be treated</li> </ul>                                                   |
|                    |                      | SAIHA             |                                                                                                                                                                                                                                                                       |



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|                            |                                     |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|-------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                                     |                             | with Rhizobium vermicompost@10 t/ha.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Ginger and turmeric</b> | <b>Vegetative stage</b>             | KOLASIB                     | <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 mixture.</li> </ul>              |
|                            |                                     | MAMIT                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                            |                                     | <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/lit of water.</li> </ul>                                                                                                                                                                                                                                                                                                                                                           |
| <b>Kharif Rice</b>         | <b>Physiological maturity stage</b> |                             | <ul style="list-style-type: none"> <li>Colour turns to green to light gold.</li> <li>Make drains corner side of the plot</li> <li>Drain out stagnant water to create stress for early maturity.</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 infestation is very high. Practice pre-baiting before apply ZNP poison baiting to avoid the bait shyness.</li> </ul> |
|                            |                                     | LUNGLEI                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                            |                                     | <b>Bird damage</b>          | <ul style="list-style-type: none"> <li>Pyrotechnics include a wide variety of noise-producing cartridges usually fired from rockets or rope bangers, or on aerodromes from modified pistols or shotguns, which produce a loud bang and emit flashes of light.</li> <li>Balloons tethered in a crop are an inexpensive method of bird deterrence.</li> <li>Kites and kite-hawks work as mobile predator models, which birds perceive as a</li> </ul>                                                                           |
|                            |                                     | LAWNGTLAI                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                            |                                     | SAIHA                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |



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|                |                            |                                                          |                                                                                                                                                                                                                                                                                                       |
|----------------|----------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |                            |                                                          | threat.                                                                                                                                                                                                                                                                                               |
|                |                            | <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/lit 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> | 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                                                                                                                                                                                                              |
| <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>   |                                                          | <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> | <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> </ul>                                                                                                                                                                                                       |
|                |                            | <b>4-5<sup>th</sup> Weeks</b>                            | <ul style="list-style-type: none"> <li>Calcium tonic fortified with B<sub>12</sub></li> </ul>                                                                                                                                                                                                         |
|                | <b>Bacillary</b>           | <b>All stage</b>                                         | <ul style="list-style-type: none"> <li>Burn all the dead birds.</li> </ul>                                                                                                                                                                                                                            |



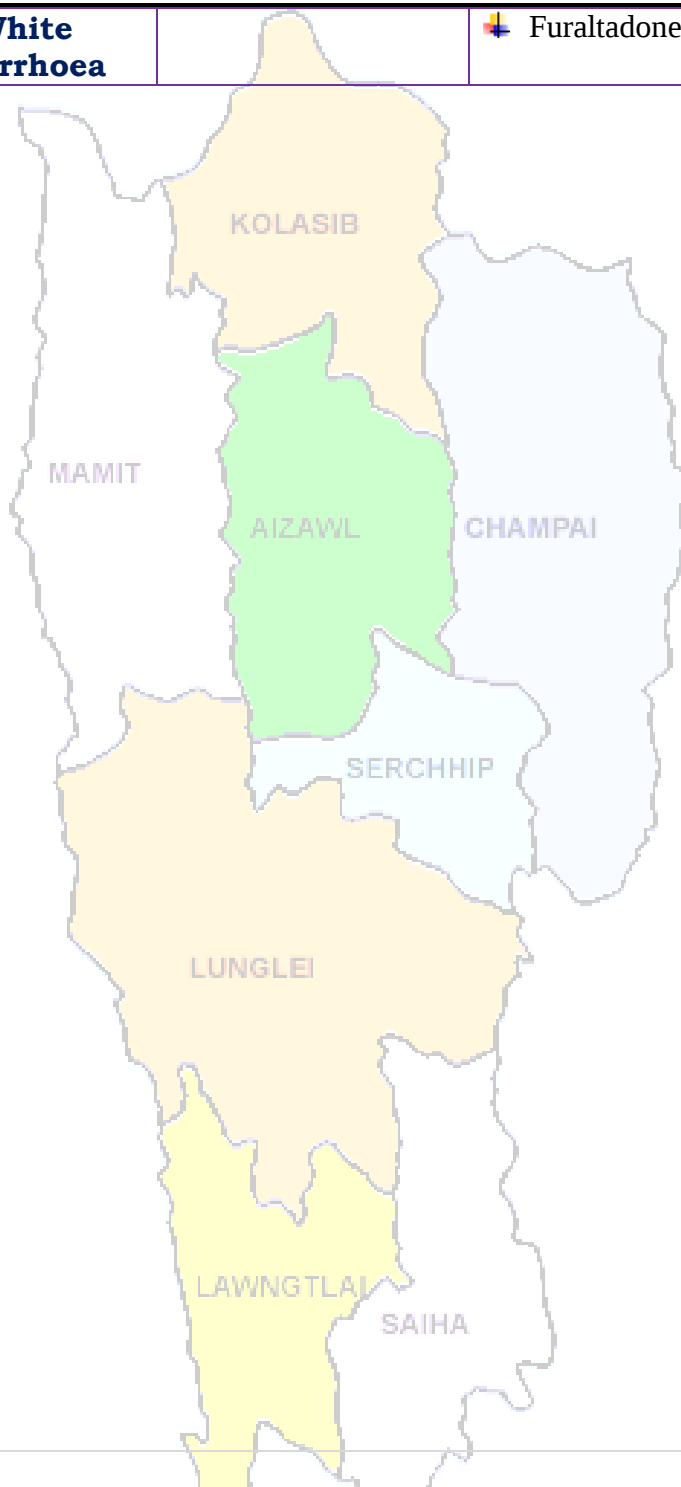
# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



|  |                            |                                                                                                                                 |
|--|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
|  | <b>White<br/>Diarrhoea</b> |  Furaltadone@ 0.5 g/litre of water for 7 days. |
|--|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|





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