



# 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:** 12 - 16 March, 2016

**Bulletin No:** -595/2016/ Bulletin/Mizo

**Date of issue:** 11<sup>th</sup> March, 2016

| Parameters        | 12.03.2016 | 13.03.2016 | 14.03.2016 | 15.03.2016      | 16.03.2016      |
|-------------------|------------|------------|------------|-----------------|-----------------|
| Rainfall (mm)     | 1          | 1          | 0          | 1               | 1               |
| Max Temp (oC)     | 32         | 32         | 35         | 32              | 31              |
| Min Temp (oC)     | 16         | 16         | 16         | 14              | 13              |
| Cloud Coverage    | Clear sky  | Clear sky  | Clear sky  | Partially clear | Partially clear |
| Max RH (%)        | 73         | 68         | 79         | 88              | 98              |
| Min RH (%)        | 25         | 23         | 24         | 32              | 40              |
| Wind Speed (Kmph) | 6          | 5          | 2          | 2               | 4               |
| *Wind Direction   | S-E        | S-E        | S-E        | S               | S-E             |

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

**STATUS OF MONSOON- February 1-29, 2015 (Percent of deviation from normal in parenthesis)**

|                                     |                                     |                                   |                                    |
|-------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| <b>Aizawl- 00.0mm</b><br>(11.5mm)   | <b>Champhai- 00.0mm</b><br>(12.1mm) | <b>Saiha- 00.0 mm</b><br>(13.9mm) | <b>Kolasib- 00.0mm</b><br>(14.8mm) |
| <b>Lawngtlai-00.0mm</b><br>(07.1mm) | <b>Lunglei-5.34mm</b><br>(08.9mm)   | <b>Mamit-00.0mm</b><br>(07.2mm)   | <b>Serchhip-00.0mm</b><br>(12.9mm) |

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

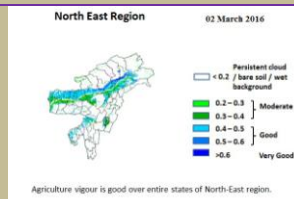
Khua a lum lai berin 27.7-28.0°C leh a vawh lai berin 20.4-22.6°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 67-74% leh a hniam lai 48-59% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **007.40mm** ani. (Source- Mosdac.gov.in)

**March 12, 2016 atanga March 16, 2016 sik leh sa dinhmun hmuhlawk dan**

Ni 4 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 31-35°C a ni ang a. A vawh lai ber in 13-14°C ni tur ah beisei a ni. RH san lai berin 68-98% leh a hniam lai berin 23-40% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-6 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

**Weekly cumulative rainfall: 04.0mm**

**NDVI for Mizoram**



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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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>Harvest stage</b> |                                                  | <ul style="list-style-type: none"> <li>• A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. Arawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur.</li> <li>• Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur.</li> <li>• Lei, balu leh bawngkek leitha chu a inzat theuha pawlin pek tur.</li> <li>• Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur.</li> <li>• Certified thlai chi chauh hman tur.</li> <li>• Ser kung bula tuitling chu paihfai vek tur.</li> <li>• A tiak inchen tlang chauh phun atan hman tur.</li> <li>• A zar tliak leh hnip chu paihfai zel tur.</li> <li>• Thlai chu hrisel taka enkawl tur.</li> </ul> |
| <b>Oil palm</b>                     | <b>Harvest stage</b> |                                                  | <ul style="list-style-type: none"> <li>• Oil palm kung bul chu tihfai a a zar thlak bawk tur.</li> <li>• Leitha chu thlai pakhat 600:200:100g a pek tur.</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>                                                                                                                                                                                                                                                                                                                                                                                                                       |



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|             |                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------|----------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                      |  | <ul style="list-style-type: none"> <li>Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                           |
| Balhla      | Flower/Harvest stage |  | <ul style="list-style-type: none"> <li>Balhla kung bul chu tihfai a a zar thlak baw tur.</li> <li>Leitha chu thlai pakhatat 600:200:100g a pek tur.</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 baw tur.</li> <li>A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam baw ani.</li> <li>A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.</li> </ul> |
| Sapthei     | Transplant stage     |  | <ul style="list-style-type: none"> <li>A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.</li> <li>A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur.</li> <li>Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur.</li> <li>Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.</li> </ul>                                                                                                                                                         |
| Lakhuihthei | A par lai            |  | <ul style="list-style-type: none"> <li>A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur.</li> <li>Chemical pek atangin ni 55-60</li> </ul>                                                                                                                                                                                                                                                                                                  |



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|                             |                   |                            |                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------|-------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             |                   | KOLASIB                    | <p>chhungin a par a chhuah thei ang.</p> <ul style="list-style-type: none"> <li>Leitha chu thlai pakhat ah 60:50:60g a pek tur.</li> <li>Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.</li> </ul>                                                                                                                                                |
|                             |                   | <b>Corm borer</b>          | <ul style="list-style-type: none"> <li>Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur</li> </ul>                                                                                                                                                                                                                |
| <b>Cucurbitaceous crops</b> | <b>A rah lai</b>  | MAMIT<br>AIZAWL<br>CHAMPAI | <ul style="list-style-type: none"> <li>Ni 7 danah tui chu tha taka pek tur.</li> <li>Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur.</li> <li>Thlai pakhatah a par nasat lain urea chu 70g a pek tur.</li> </ul> |
| <b>Bawrhsaiabe</b>          | <b>A chin dan</b> | SERCHHIP                   | <ul style="list-style-type: none"> <li>A kung bulthut ah hnim chheh darh tur.</li> <li>A khat tawkin tui pek tur.</li> <li>A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.</li> </ul>                                                                                                                                                                          |
|                             |                   | 1. Aphids                  | <ul style="list-style-type: none"> <li>Surf tuiin thlai chu kah tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur</li> </ul>                                                                                                                                                    |
|                             |                   | 2. Flea beetle             | <ul style="list-style-type: none"> <li>Pangang tui leh a puitling te chu a kung atangin thin thlak tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a</li> </ul>                                                                                                                         |



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|  |  |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--|--|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |                                  | kah tur.                                                                                                                                                                                                                                                                                                                                                                                                                              |
|  |  | <b>3. Epilachna beetle</b>       | <ul style="list-style-type: none"> <li>A hnah a pangang leh a tui awm chu paihfai tur.</li> <li>Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.</li> </ul>                                                                                                                                                                                                                                                                      |
|  |  | <b>4. Leaf hopper</b>            | <ul style="list-style-type: none"> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>                                                                                                                                                                                                                                                         |
|  |  | <b>Bacterial wilt</b>            | <ul style="list-style-type: none"> <li>Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur.</li> <li>Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur. bacterial wilt chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei.</li> <li>Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.</li> </ul> |
|  |  | <b>Damping off</b>               | <ul style="list-style-type: none"> <li>Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride 4g + Metalaxyl 4g (Apron) a chiah tur.</li> <li>Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.</li> </ul>                                                                                                                                             |
|  |  | <b>Leaf spot and leaf blotch</b> | <ul style="list-style-type: none"> <li>Dithane M-45 chu tui litre khatah 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur.</li> <li>Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.</li> </ul>                                                                                                                                                                                       |
|  |  | <b>Leaf spot leh leaf blotch</b> | <ul style="list-style-type: none"> <li>Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah</li> </ul>                                                                                                                                                                                                                                                                                                 |



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|             |               |                                       |                                                                                                                                                                                                                                                      |
|-------------|---------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |               |                                       | vawi 2/3 kah thin tur.<br>• Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.                                                                                                                                                  |
| French bean | A par lai     | KOLASIB                               | • Bean hnah, a tang ro leh hnim te chu paihfai vek tur.<br>• Lei chu boruak kal that nan laihphut thin tur.<br>• A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.                                                                    |
|             |               | Blister beetle                        | • Rannung ho chu mankhawmin thah vek tur.<br>• Cypermethrin 2g chu tui litre khata pawlh kah thin tur                                                                                                                                                |
| Bawkbawn    | A chin dan    | MAMIT<br>AIZAWL<br>CHAMPA<br>SERCHHIP | • Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlh leh tur.<br>• A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur. |
| Tomato      | A chin dan    | LUNGLEI                               | • Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).<br>• Leitha 10kg leh bawnggek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.                                                                      |
|             |               | Aphids                                | • Surf tuiin thlai chu kah tur.<br>• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.                                                                                     |
|             |               | Epilachna beetle                      | • Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei                                                                                                                                                                        |
| Buh         | Nursery stage | Pre kharif rice                       | • A chi tha leh khat tha chauh                                                                                                                                                                                                                       |





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|                     |                  |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |                  | KOLASIB                                           | hman tur.<br>• Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.<br>• Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.                                                                                                                                                                                                                                                                                 |
|                     |                  | MAMIT<br>AIZAWL<br>CHAMPAI<br>SERCHHIP<br>LUNGLEI | <b>Raised bed method</b><br>• A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng.<br>• Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.                                                                                                                                                                                                               |
| Vaimim              | A chin dan       |                                                   | • Lei chu vawi 2/3 laihphut phawt tur.<br>• A chi chu a line indawt a chin tur<br>• A chi chu kg khatah Thiram 4g a chiah tur.<br>• Hectare khatah buh chi chu 20-25kg hman tur.<br>• Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur. |
| Sawhthing leh Aieng | Land preparation | LAWNGTLAI<br>SAIHA                                | • Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.<br>• Lei chu boruak kal that nan laihphut thin tur.<br>• Nitrogen leitha chu an mamawh taw kanga pek tur.                                                                                                                                                                                                                                                                             |
|                     |                  | <b>Thrips</b>                                     | • Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin                                                                                                                                                                                                                                                                                                                                                                                  |



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|              |                       |                                                          |                                                                                                                                                                                |
|--------------|-----------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |                       |                                                          | kah tur.                                                                                                                                                                       |
|              |                       | <b>Scales</b>                                            | <ul style="list-style-type: none"> <li>Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.</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 chhonzawm tur                                                                  |
| <b>Bawng</b> | <b>Kumtluanin</b>     | <b>Foot and Mouth Disease (FMD)</b>                      | <ul style="list-style-type: none"> <li>Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhonzawm 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)</li> <li>Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>Kumkhat hnu ah vaccine pek leh tur.</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:** Lawngtlai

**Period:** 12 - 16 March, 2016

**Bulletin No:** -595/2016/ Bulletin/English

**Date of issue:** 11<sup>th</sup> March, 2016

| Parameters               | 12.03.2016      | 13.03.2016      | 14.03.2016 | 15.03.2016    | 16.03.2016      |
|--------------------------|-----------------|-----------------|------------|---------------|-----------------|
| <b>Rainfall (mm)</b>     | 1               | 0               | 0          | 1             | 0               |
| <b>Max Temp (°C)</b>     | 33              | 34              | 34         | 34            | 34              |
| <b>Min Temp (°C)</b>     | 16              | 16              | 17         | 17            | 16              |
| <b>Cloud Coverage</b>    | Partially clear | Partially clear | Clear sky  | Mainly cloudy | Partially clear |
| <b>Max RH (%)</b>        | 70              | 65              | 77         | 65            | 75              |
| <b>Min RH (%)</b>        | 25              | 26              | 25         | 27            | 27              |
| <b>Wind Speed (Kmph)</b> | 4               | 6               | 4          | 5             | 4               |
| <b>*Wind Direction</b>   | E               | E               | N-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- February 1-29, 2016 (Percent of deviation from normal in parenthesis)**

|                                     |                                     |                                   |                                    |
|-------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| <b>Aizawl- 00.0mm</b><br>(11.5mm)   | <b>Champhai- 00.0mm</b><br>(12.1mm) | <b>Saiha- 00.0 mm</b><br>(13.9mm) | <b>Kolasib- 00.0mm</b><br>(14.8mm) |
| <b>Lawngtlai-00.0mm</b><br>(07.1mm) | <b>Lunglei-5.34mm</b><br>(08.9mm)   | <b>Mamit-00.0mm</b><br>(07.2mm)   | <b>Serchhip-00.0mm</b><br>(12.9mm) |

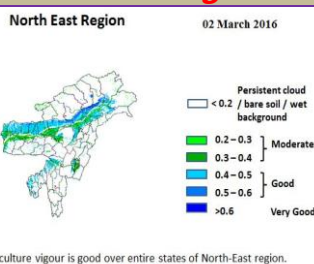
**Weather summary of the past three days**

**Weather forecast valid from 12<sup>th</sup> March, 2016 To 16<sup>th</sup> March, 2016.**

There are chances of rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 33-34°C and 16-17°C. Maximum relative humidity is expected in the range of 65-77% and minimum may from 25-27%. Wind direction would be easterly to northeasterly with the wind speed of 4-5 km per hour. Partially cloudy sky will prevail during the next five days.

**Weekly cumulative rainfall: 02.0 mm**

**NDVI for Mizoram**



NDVI of soil moisture for Mizoram is moderate wet condition.

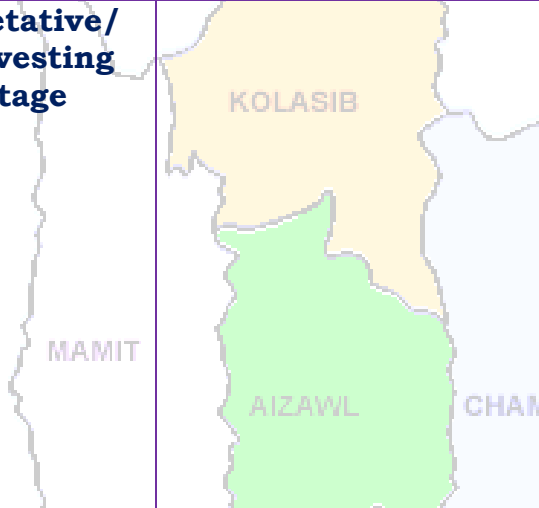
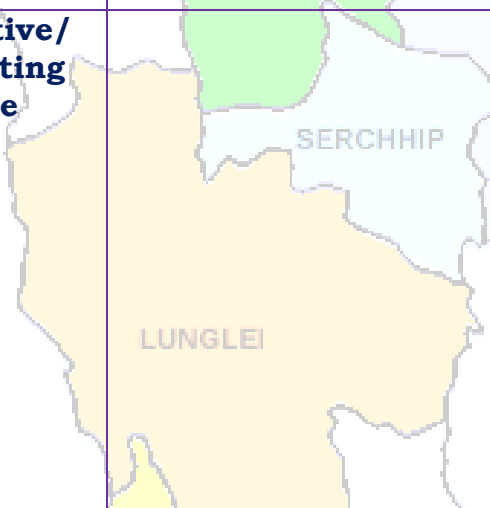
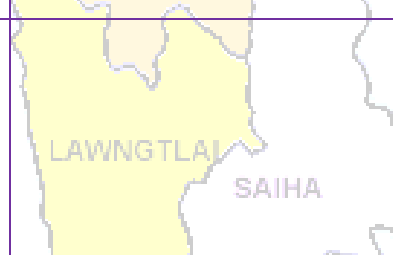


# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



| Main Crop/<br>Animal<br>/ Fisheries | Stage                                       | Cultural practices/<br>Pest/ Diseases                                               | Agricultural / Horticultural/<br>animal husbandry advisories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Khasi<br/>Mandarin</b>           | <b>Vegetative/<br/>Harvesting<br/>stage</b> |   | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Apply Bordeaux mixture to the plant after pruning.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| <b>Oil plam</b>                     | <b>Vegetative/<br/>Harvesting<br/>stage</b> |  | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Apply Bordeaux mixture to the plant after pruning.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| <b>Banana</b>                       | <b>Vegetative/<br/>harvesting</b>           |  | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> </ul>                                                                                                                                                                                                                                                                |



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Mizoram Centre, Kolasib- 796081, MIZORAM

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|                  |                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------|-------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                         |  | <ul style="list-style-type: none"> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Pruning on a regular basis removes unwanted or suckers, keeps production mats in optimum condition, saves fertilizer, reduces pest and disease.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive yellow colour.</li> </ul>                                                                                                                                                                                                  |
| <b>Pineapple</b> | <b>Vegetative stage</b> |  | <ul style="list-style-type: none"> <li>❖ Colocassia, yam, chilies, cabbage, cauliflower, sweet potato, pigeon pea, green gram, black gram, sesame, etc. intercrop with pine apple which give additional income to farmer.</li> <li>❖ Pineapple plants should be irrigated with five or six irrigations during the dry months at intervals of 20–25 days.</li> <li>❖ Cover crops like sweet potato, etc., can also be grown to conserve soil moisture.</li> <li>❖ Mulching with straw and other plant materials is the technique for soil moisture conservation.</li> </ul> |
| <b>Brinjal</b>   | <b>Transplant stage</b> |  | <ul style="list-style-type: none"> <li>❖ Brinjal is planted in well pulverized and leveled field.</li> <li>❖ Brinjal is normally planted in raised beds of 60 to 75 cm width.</li> <li>❖ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation.</li> <li>❖ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.</li> </ul>                                                                                                          |

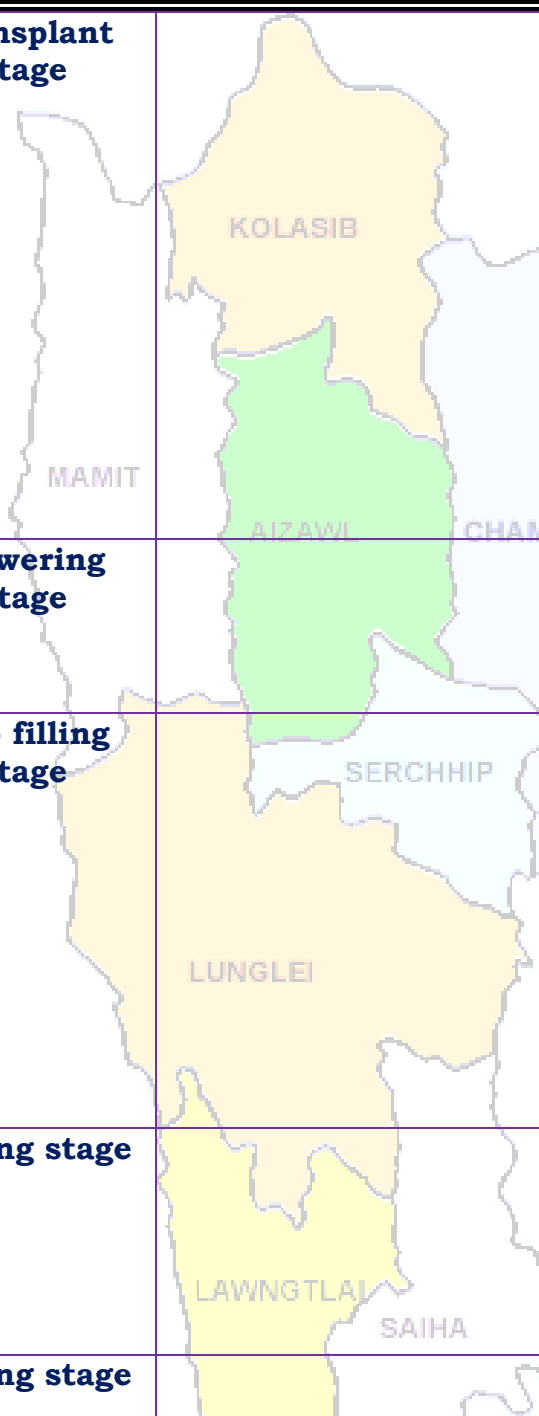


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Mizoram Centre, Kolasib- 796081, MIZORAM

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|                    |                          |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|--------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chilli</b>      | <b>Transplant stage</b>  |  | <ul style="list-style-type: none"> <li>❖ Chilli is planted in well pulverized and leveled field.</li> <li>❖ Chilli is normally planted in raised beds of 60 to 75 cm width.</li> <li>❖ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation.</li> <li>❖ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.</li> </ul> |
| <b>Tomato</b>      | <b>Flowering stage</b>   |                                                                                    | <ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation in the plant.</li> </ul>                                                                                                                                                                                                                                                                     |
| <b>Pineapple</b>   | <b>Gap filling stage</b> |                                                                                    | <ul style="list-style-type: none"> <li>❖ Double row planting is done by alternating two rows of crops by a wider mound or path.</li> <li>❖ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy season, they may begin to decay.</li> </ul>                                                                                      |
| <b>French bean</b> | <b>Sowing stage</b>      |                                                                                    | <ul style="list-style-type: none"> <li>❖ Plough the field properly, at least 2-3 times.</li> <li>❖ Mix fertilizer with FYM 50:60:60Kg /ha.</li> <li>❖ Sow 2-3 seed per whole.</li> <li>❖ Spacing should be 30 X 20 cm.</li> </ul>                                                                                                                                                                                                                               |
| <b>Cowpea</b>      | <b>Sowing stage</b>      |                                                                                    | <ul style="list-style-type: none"> <li>❖ Plough the field properly, at least 2-3 times.</li> </ul>                                                                                                                                                                                                                                                                                                                                                              |



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Mizoram Centre, Kolasib- 796081, MIZORAM

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|                            |                      |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|----------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                      |                                                          | <ul style="list-style-type: none"> <li>❖ Mix fertilizer with FYM 50:60:60Kg /ha.</li> <li>❖ Sow 2-3 seed per whole.</li> <li>❖ Spacing should be 30 X 20 cm.</li> </ul>                                                                                                                                                                                                                                                                         |
| <b>Mustard and toria</b>   | <b>Harvest stage</b> | KOLASIB                                                  | <ul style="list-style-type: none"> <li>❖ Siliqua and plants turns green to yellow at physiological maturity stage.</li> <li>❖ Cut the plant from base.</li> <li>❖ Sundry for 3 to 5 days.</li> </ul>                                                                                                                                                                                                                                            |
| <b>Pea</b>                 | <b>Harvest stage</b> | MAMIT<br>AIZAWL<br>CHAMPAI                               | <ul style="list-style-type: none"> <li>❖ Green pods are harvested for consumption as vegetables</li> <li>❖ For grain or seed purpose, pods are harvested when fully matured</li> <li>❖ Total harvest can be done when pods and plants turns green to yellow.</li> </ul>                                                                                                                                                                         |
| <b>Ginger and turmeric</b> | <b>Harvest stage</b> | SERCHHIP<br>LUNGLEI                                      | <ul style="list-style-type: none"> <li>❖ Turmeric and ginger is harvested when leaves start yellowing and ultimately the stem dries down.</li> <li>❖ The plants are-cut close to the ground.</li> <li>❖ The crop is irrigated lightly for easy digging.</li> <li>❖ Harvesting consists of digging of underground clumps of rhizomes with</li> <li>❖ Pick axe or digging fork.</li> <li>❖ Fingers are separated from mother rhizomes.</li> </ul> |
| <b>Pig</b>                 | <b>All stages</b>    | <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                                                                                                                                                                                                                                                                                                                                                                 |





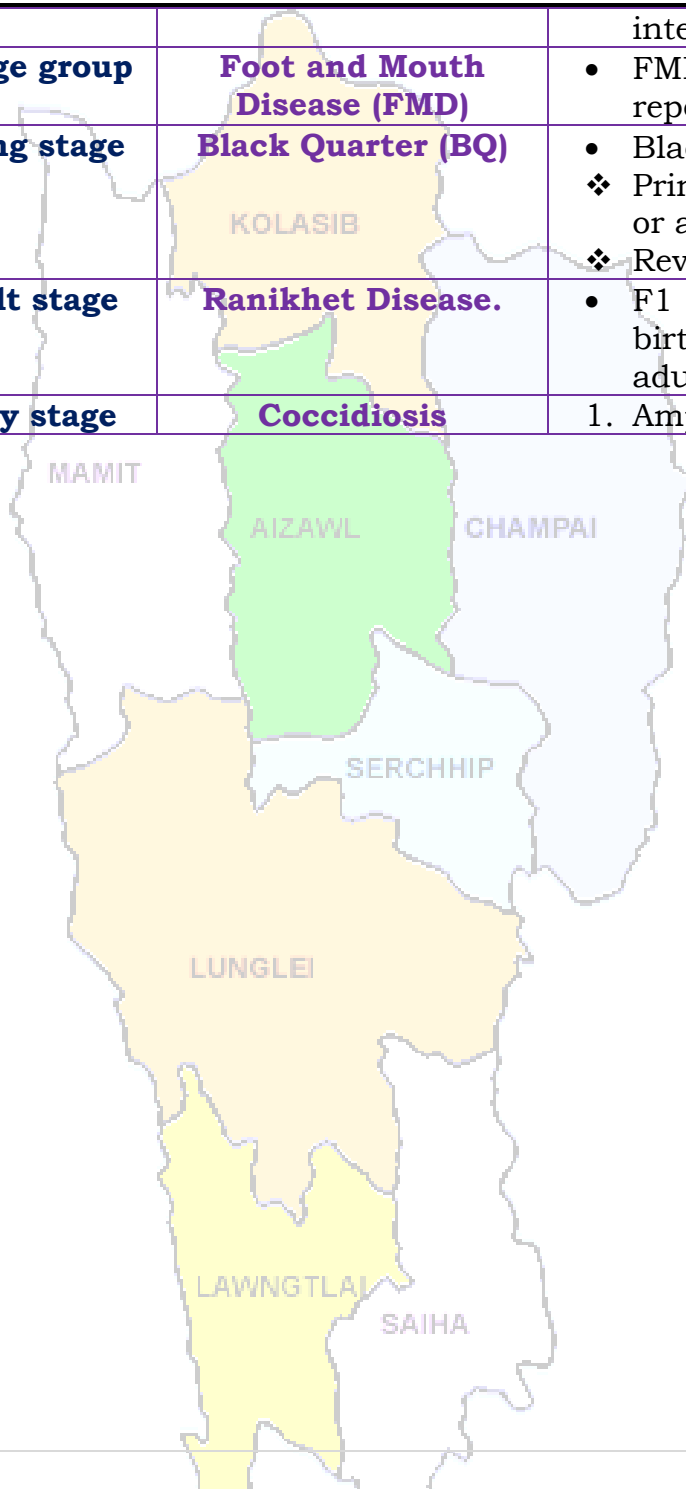
# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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|                |                      |                                     |                                                                                                                                                                  |
|----------------|----------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |                      |                                     | 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>Adult stage</b>   | <b>Ranikhet Disease.</b>            | <ul style="list-style-type: none"> <li>F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> </ul>                                  |
|                | <b>Early stage</b>   | <b>Coccidiosis</b>                  | 1. Amprolium or coccidiostat                                                                                                                                     |





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Guwahati)



## Expert committee members:

|                                |   |                                               |                                                                                          |
|--------------------------------|---|-----------------------------------------------|------------------------------------------------------------------------------------------|
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| <b>Dr. Sudip Kumar Dutta</b>   | : | Scientist (Hort.)                             | <a href="mailto:sudipari@rediffmail.com">sudipari@rediffmail.com</a>                     |
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| <b>Dr. L. H. Puui</b>          | : | Scientist (Vet. Microbiology)                 | <a href="mailto:lpuii@gmail.com">lpuii@gmail.com</a>                                     |
| <b>Dr. Lungmuana</b>           | : | Scientist (Soil Fertility)                    | <a href="mailto:lmsingson@gmail.com">lmsingson@gmail.com</a>                             |
| <b>Dr. M. Thoithoi Devi</b>    | : | Scientist (Agronomy)                          |                                                                                          |
| <b>Mr. Samik Chowdhury</b>     | : | Technical Officer                             | <a href="mailto:samikchowdhury33@gmail.com">samikchowdhury33@gmail.com</a>               |
| <b>Mr. Evans Syiem</b>         | : | Meteorological Observer                       | <a href="mailto:evansmeteo@gmail.com">evansmeteo@gmail.com</a>                           |
| <b>Miss. Malsawmzuali</b>      | : | Research Associate (Mizo language Translator) | <a href="mailto:mamamralte@yahoo.com">mamamralte@yahoo.com</a>                           |
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## Collaborating Department:

|                                 |   |                   |                                                                                                                                                |
|---------------------------------|---|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
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| <b>Dr. K. P. Chaudhary</b>      | : | PC KVK, Aizawl    | <a href="mailto:Kpchy@rediffmail.com">Kpchy@rediffmail.com</a><br><a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>       |



# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Lawngtlai

**Period:** 12 - 16 March, 2016

**Bulletin No:** -595/2016/ Bulletin/Mizo

**Date of issue:** 11<sup>th</sup> March, 2016

| Parameters        | 12.03.2016 | 13.03.2016 | 14.03.2016 | 15.03.2016      | 16.03.2016    |
|-------------------|------------|------------|------------|-----------------|---------------|
| Rainfall (mm)     | 0          | 0          | 0          | 0               | 0             |
| Max Temp (oC)     | 30         | 30         | 30         | 31              | 32            |
| Min Temp (oC)     | 17         | 18         | 18         | 18              | 18            |
| Cloud Coverage    | Clear sky  | Clear sky  | Clear sky  | Partially clear | Mainly cloudy |
| Max RH (%)        | 63         | 64         | 58         | 62              | 56            |
| Min RH (%)        | 24         | 26         | 25         | 23              | 21            |
| Wind Speed (Kmph) | 4          | 4          | 4          | 4               | 5             |
| *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- February 1-29, 2016 (Percent of deviation from normal in parenthesis)**

|                                     |                                     |                                   |                                    |
|-------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| <b>Aizawl- 00.0mm</b><br>(11.5mm)   | <b>Champhai- 00.0mm</b><br>(12.1mm) | <b>Saiha- 00.0 mm</b><br>(13.9mm) | <b>Kolasib- 00.0mm</b><br>(14.8mm) |
| <b>Lawngtlai-00.0mm</b><br>(07.1mm) | <b>Lunglei-5.34mm</b><br>(08.9mm)   | <b>Mamit-00.0mm</b><br>(07.2mm)   | <b>Serchhip-00.0mm</b><br>(12.9mm) |

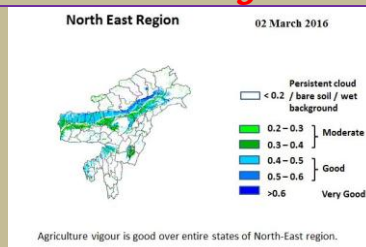
**Ni thum kaltha sik leh sa dinhmun tlangpui**

**March 12, 2016 atanga March 16, 2016 sik leh sa dinhmun hmuhlawk dan**

Ni 2 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 33-34°C a ni ang a.A vawh lai ber in 16-17°C ni tur ah beisei a ni.RH san lai berin 65-77% leh a hniam lai berin 25-27% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 4-5 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

**Weekly cumulative rainfall: 02.0mm**

**NDVI for Mizoram**



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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| Thlai/ ran /sangha                  | Spat zawng           | Hmalakna tur/ ranning leh natna hrik awm thei te | Agricultural/Horticultural/ animal husbandry atana thurawn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------|----------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Khasi Mandarin and acid lime</b> | <b>Harvest stage</b> |                                                  | <ul style="list-style-type: none"> <li>• A chi: A chi chu lakchhuah anih vele nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur.</li> <li>• Nursery chu ranning leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur.</li> <li>• Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur.</li> <li>• Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur.</li> <li>• Certified thlai chi chauh hman tur.</li> <li>• Ser kung bula tuitling chu paihfai vek tur.</li> <li>• A tiak inchen tlang chauh phun atan hman tur.</li> <li>• A zar tliak leh hnip chu paihfai zel tur.</li> <li>• Thlai chu hrisel taka enkawl tur.</li> </ul> |
| <b>Oil palm</b>                     | <b>Harvest stage</b> |                                                  | <ul style="list-style-type: none"> <li>• Oil palm kung bul chu tihfai a a zar thlak bawk tur.</li> <li>• Leitha chu thlai pakhat 600:200:100g a pek tur.</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> <li>• Oil palm rah chu a puitlin</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                  |



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Mizoram Centre, Kolasib- 796081, MIZORAM

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|                    |                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|-----------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                             |  | <p>hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.</p> <ul style="list-style-type: none"> <li>Balhla kung bul chu tihfai a a zar thlak bawk tur.</li> <li>Leitha chu thlai pakhatath 600:200:100g a pek tur.</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> <li>A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani.</li> <li>A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.</li> </ul> |
| <b>Balhla</b>      | <b>Flower/Harvest stage</b> |  | <ul style="list-style-type: none"> <li>A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.</li> <li>A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur.</li> <li>Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur.</li> <li>Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.</li> </ul>                                                                                                                                                                                                                                                    |
| <b>Sapthei</b>     | <b>Transplant stage</b>     |  | <ul style="list-style-type: none"> <li>A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur.</li> <li>Chemical pek atangin ni 55-60 chhungin a par a chhuah thei</li> </ul>                                                                                                                                                                                                                                                                                                                                                               |
| <b>Lakhuihthei</b> | <b>A par lai</b>            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |



# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



|                             |                   |                                                                                                |                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------|-------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             |                   |                                                                                                | ang.                                                                                                                                                                                                                                                                                                                                                                 |
|                             |                   |                                                                                                | <ul style="list-style-type: none"> <li>Leitha chu thlai pakhat ah 60:50:60g a pek tur.</li> <li>Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.</li> </ul>                                                                                                                                                                                       |
|                             |                   | <b>Corm borer</b>                                                                              | <ul style="list-style-type: none"> <li>Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur</li> </ul>                                                                                                                                                                                                              |
| <b>Cucurbitaceous crops</b> | <b>A rah lai</b>  |                                                                                                | <ul style="list-style-type: none"> <li>Ni 7 danah tui chu tha taka pek tur.</li> <li>Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur.</li> <li>Thlai pakhat a par nasat lain urea chu 70g a pek tur.</li> </ul> |
| <b>Bawrsaiabe</b>           | <b>A chin dan</b> | <b>1. Nursery tihfai a tui tlem pek tur.</b><br><b>2. Phunsawn hnuah tui tha taka pek tur.</b> | <ul style="list-style-type: none"> <li>A kung bulthut ah hnim chheh darh tur.</li> <li>A khat tawkin tui pek tur.</li> <li>A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.</li> </ul>                                                                                                                                                                        |
|                             |                   | <b>1. Aphids</b>                                                                               | <ul style="list-style-type: none"> <li>Surf tuiin thlai chu kah tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur</li> </ul>                                                                                                                                                  |
|                             |                   | <b>2. Flea beetle</b>                                                                          | <ul style="list-style-type: none"> <li>Pangang tui leh a puitling te chu a kung atangin thin thlak tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml</li> </ul>                                                                                                                         |





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|  |  |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--|--|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |                                  | a kah tur.                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|  |  | <b>3. Epilachna beetle</b>       | <ul style="list-style-type: none"> <li>• A hnah a pangang leh a tui awm chu paihfai tur.</li> <li>• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.</li> </ul>                                                                                                                                                                                                                                                                        |
|  |  | <b>4. Leaf hopper</b>            | <ul style="list-style-type: none"> <li>• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>                                                                                                                                                                                                                                                             |
|  |  | <b>Bacterial wilt</b>            | <ul style="list-style-type: none"> <li>• Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur.</li> <li>• Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur. bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei.</li> <li>• Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.</li> </ul> |
|  |  | <b>Damping off</b>               | <ul style="list-style-type: none"> <li>• Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride 4g+Metalaxyl 4g (Apron) a chiah tur.</li> <li>• Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.</li> </ul>                                                                                                                                                 |
|  |  | <b>Leaf spot and leaf blotch</b> | <ul style="list-style-type: none"> <li>• Dithane M-45 chu tui litre khatah 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur.</li> <li>• Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.</li> </ul>                                                                                                                                                                                         |
|  |  | <b>Leaf spot leh leaf blotch</b> | <ul style="list-style-type: none"> <li>• Tui litre khatah Dithane M-45</li> </ul>                                                                                                                                                                                                                                                                                                                                                           |



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|             |            |           |                                                                                                                                                                                                                                                                                                                 |
|-------------|------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |            |           | <p>chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur.</p> <ul style="list-style-type: none"> <li>• Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.</li> </ul>                                                                                                 |
| French bean | A par lai  | KOLASIB   | <ul style="list-style-type: none"> <li>• Bean hnah, a tang ro leh hnime chu paihfai vek tur.</li> <li>• Lei chu boruak kal that nan laihphut thin tur.</li> <li>• A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.</li> </ul>                                                                   |
|             |            | MAMIT     |                                                                                                                                                                                                                                                                                                                 |
|             |            | AIZAWL    | <p><b>Blister beetle</b></p> <ul style="list-style-type: none"> <li>• Rannung ho chu mankhawmin thah vek tur.</li> <li>• Cypermethrin 2g chu tui litre khata pawlhin kah thin tur</li> </ul>                                                                                                                    |
| Bawkbawn    | A chin dan | CHAMPAI   | <ul style="list-style-type: none"> <li>• Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur.</li> <li>• A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</li> </ul> |
|             |            | SERCHHIP  |                                                                                                                                                                                                                                                                                                                 |
| Tomato      | A chin dan | LUNGLEI   | <ul style="list-style-type: none"> <li>• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</li> <li>• Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</li> </ul>                                                                          |
|             |            | LAWNGTLAI | <p><b>Aphids</b></p> <ul style="list-style-type: none"> <li>• Surf tuiin thlai chu kah tur.</li> <li>• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>                                                                   |
|             |            | SAIHA     |                                                                                                                                                                                                                                                                                                                 |
|             |            |           | <p><b>Epilachna beetle</b></p> <ul style="list-style-type: none"> <li>• Methyl parathion 0.5% emaw</li> </ul>                                                                                                                                                                                                   |



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|                            |                         |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|-------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                         |                          | Dimethoate 0.3% a kah in flea beetle a veng thei                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Buh</b>                 | <b>Nursery stage</b>    | <b>Pre kharif rice</b>   | <ul style="list-style-type: none"> <li>• A chi tha leh khat tha chauh hman tur.</li> <li>• Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</li> <li>• Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</li> </ul>                                                                                                                                                                                                                                                              |
|                            |                         | <b>Raised bed method</b> | <ul style="list-style-type: none"> <li>• A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng.</li> <li>• Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</li> </ul>                                                                                                                                                                                                                                                             |
| <b>Vaimim</b>              | <b>A chin dan</b>       |                          | <ul style="list-style-type: none"> <li>• Lei chu vawi 2/3 laihphut phawt tur.</li> <li>• A chi chu a line indawt a chin tur</li> <li>• A chi chu kg khatah Thiram 4g a chiah tur.</li> <li>• Hectare khatah buh chi chu 20-25kg hman tur.</li> <li>• Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.</li> </ul> |
| <b>Sawhthing leh Aieng</b> | <b>Land preparation</b> |                          | <ul style="list-style-type: none"> <li>• Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>• Lei chu boruak kal that nan laihphut thin tur.</li> <li>• Nitrogen leitha chu an</li> </ul>                                                                                                                                                                                                                                                                                                                   |



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|              |                       |                                                          |                                                                                                                                                                                                                          |
|--------------|-----------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |                       |                                                          | mamawh taw kanga pek tur.                                                                                                                                                                                                |
|              |                       | <b>Thrips</b>                                            | <ul style="list-style-type: none"> <li>Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.</li> </ul>                                                                                                   |
|              |                       | <b>Scales</b>                                            | <ul style="list-style-type: none"> <li>Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.</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>Thla 16 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:** Lunglei

**Period:** 12 - 16 March, 2016

**Bulletin No:** -595/2016/ Bulletin/English

**Date of issue:** 11<sup>th</sup> March, 2016

| Parameters               | 12.03.2016   | 13.03.2016      | 14.03.2016 | 15.03.2016    | 16.03.2016      |
|--------------------------|--------------|-----------------|------------|---------------|-----------------|
| <b>Rainfall (mm)</b>     | 0            | 0               | 0          | 1             | 0               |
| <b>Max Temp (°C)</b>     | 32           | 33              | 33         | 33            | 32              |
| <b>Min Temp (°C)</b>     | 16           | 17              | 15         | 15            | 14              |
| <b>Cloud Coverage</b>    | Mainly clear | Partially clear | Clear sky  | Mainly cloudy | Partially clear |
| <b>Max RH (%)</b>        | 72           | 70              | 89         | 83            | 90              |
| <b>Min RH (%)</b>        | 27           | 25              | 26         | 28            | 30              |
| <b>Wind Speed (Kmph)</b> | 4            | 4               | 3          | 3             | 3               |
| <b>*Wind Direction</b>   | S-E          | S-E             | N-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- February 1-29, 2016 (Percent of deviation from normal in parenthesis)**

|                                     |                                     |                                   |                                    |
|-------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| <b>Aizawl- 00.0mm</b><br>(11.5mm)   | <b>Champhai- 00.0mm</b><br>(12.1mm) | <b>Saiha- 00.0 mm</b><br>(13.9mm) | <b>Kolasib- 00.0mm</b><br>(14.8mm) |
| <b>Lawngtlai-00.0mm</b><br>(07.1mm) | <b>Lunglei-5.34mm</b><br>(08.9mm)   | <b>Mamit-00.0mm</b><br>(07.2mm)   | <b>Serchhip-00.0mm</b><br>(12.9mm) |

**Weather summary of the past three days**

**Weather forecast valid from 12<sup>th</sup> March, 2016 To 16<sup>th</sup> March, 2016.**

There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 32-33°C and 14-17°C. Maximum relative humidity is expected in the range of 70-90% and minimum may from 25-30%. Wind direction would be northeasterly to southeasterly with the wind speed of 3-4 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 01.0 mm**

**NDVI for Mizoram**

North East Region

02 March 2016



Persistent cloud  
< 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 } Very Good

Agriculture vigour is good over entire states of North-East region.

NDVI of soil moisture for Mizoram is moderate wet condition.



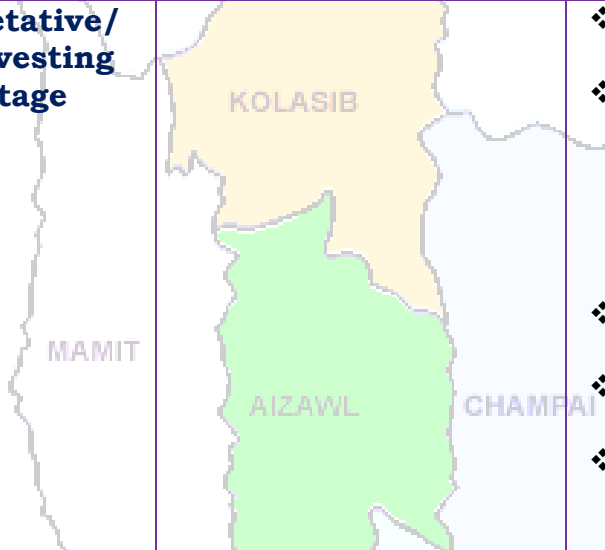


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| Main Crop/<br>Animal<br>/Fisheries | Stage                                       | Cultural practices/<br>Pest/ Diseases                                                | Agricultural / Horticultural/<br>animal husbandry advisories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Khasi<br/>Mandarin</b>          | <b>Vegetative/<br/>Harvesting<br/>stage</b> |   | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Apply Bordeaux mixture to the plant after pruning.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| <b>Oil plam</b>                    | <b>Vegetative/<br/>Harvesting<br/>stage</b> |  | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Apply Bordeaux mixture to the plant after pruning.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| <b>Banana</b>                      | <b>Vegetative/<br/>harvesting</b>           |   | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the</li> </ul>                                                                                                                                                                                                                                                                                                                                                     |



# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



|                  |                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------|-------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                         |  | <p>weed growth and decreases the number of irrigations and also improves fruit quality.</p> <ul style="list-style-type: none"> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Pruning on a regular basis removes unwanted or suckers, keeps production mats in optimum condition, saves fertilizer, reduces pest and disease.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive yellow colour.</li> </ul>                                                                                                      |
| <b>Pineapple</b> | <b>Vegetative stage</b> |  | <ul style="list-style-type: none"> <li>❖ Colocassia, yam, chilies, cabbage, cauliflower, sweet potato, pigeon pea, green gram, black gram, sesame, etc. intercrop with pine apple which give additional income to farmer.</li> <li>❖ Pineapple plants should be irrigated with five or six irrigations during the dry months at intervals of 20–25 days.</li> <li>❖ Cover crops like sweet potato, etc., can also be grown to conserve soil moisture.</li> <li>❖ Mulching with straw and other plant materials is the technique for soil moisture conservation.</li> </ul> |
| <b>Brinjal</b>   | <b>Transplant stage</b> |  | <ul style="list-style-type: none"> <li>❖ Brinjal is planted in well pulverized and leveled field.</li> <li>❖ Brinjal is normally planted in raised beds of 60 to 75 cm width.</li> <li>❖ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation.</li> </ul>                                                                                                                                                                                                                                                       |



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|                    |                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|--------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                          |  | ❖ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.                                                                                                                                                                                                                                                                                                                             |
| <b>Chilli</b>      | <b>Transplant stage</b>  |  | <ul style="list-style-type: none"> <li>❖ Chilli is planted in well pulverized and leveled field.</li> <li>❖ Chilli is normally planted in raised beds of 60 to 75 cm width.</li> <li>❖ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation.</li> <li>❖ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.</li> </ul> |
| <b>Tomato</b>      | <b>Flowering stage</b>   |  | <ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation in the plant.</li> </ul>                                                                                                                                                                                                                                                                     |
| <b>Pineapple</b>   | <b>Gap filling stage</b> |  | <ul style="list-style-type: none"> <li>❖ Double row planting is done by alternating two rows of crops by a wider mound or path.</li> <li>❖ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy season, they may begin to decay.</li> </ul>                                                                                      |
| <b>French bean</b> | <b>Sowing stage</b>      |  | ❖ Plough the field properly, at least 2-3 times.                                                                                                                                                                                                                                                                                                                                                                                                                |



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|                            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------|----------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                      |          | <ul style="list-style-type: none"> <li>❖ Mix fertilizer with FYM 50:60:60Kg /ha.</li> <li>❖ Sow 2-3 seed per whole.</li> <li>❖ Spacing should be 30 X 20 cm.</li> </ul>                                                                                                                                                                                                                                                        |
| <b>Cowpea</b>              | <b>Sowing stage</b>  | KOLASIB  | <ul style="list-style-type: none"> <li>❖ Plough the field properly, at least 2-3 times.</li> <li>❖ Mix fertilizer with FYM 50:60:60Kg /ha.</li> <li>❖ Sow 2-3 seed per whole.</li> <li>❖ Spacing should be 30 X 20 cm.</li> </ul>                                                                                                                                                                                              |
| <b>Mustard and toria</b>   | <b>Harvest stage</b> | AIZAWL   | <ul style="list-style-type: none"> <li>❖ Siliqua and plants turns green to yellow at physiological maturity stage.</li> <li>❖ Cut the plant from base.</li> <li>❖ Sundry for 3 to 5 days.</li> </ul>                                                                                                                                                                                                                           |
| <b>Pea</b>                 | <b>Harvest stage</b> | SERCHHIP | <ul style="list-style-type: none"> <li>❖ Green pods are harvested for consumption as vegetables</li> <li>❖ For grain or seed purpose, pods are harvested when fully matured</li> <li>❖ Total harvest can be done when pods and plants turns green to yellow.</li> </ul>                                                                                                                                                        |
| <b>Ginger and turmeric</b> | <b>Harvest stage</b> | LUNGLEI  | <ul style="list-style-type: none"> <li>❖ Turmeric and ginger is harvested when leaves start yellowing and ultimately the stem dries down.</li> <li>❖ The plants are-cut close to the ground.</li> <li>❖ The crop is irrigated lightly for easy digging.</li> <li>❖ Harvesting consists of digging of underground clumps of rhizomes with</li> <li>❖ Pick axe or digging fork.</li> <li>❖ Fingers are separated from</li> </ul> |



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|                |                      |                                                          |                                                                                                      |
|----------------|----------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|                |                      |                                                          | mother rhizomes.                                                                                     |
| <b>Pig</b>     | <b>All stages</b>    | <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>Adult stage</b>   | <b>Ranikhet Disease.</b>                                 | • F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.                    |
|                | <b>Early stage</b>   | <b>Coccidiosis</b>                                       | 1. Amprolium or coccidiostat                                                                         |



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Guwahati)



## 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:** 12 - 16 March, 2016

**Bulletin No:** -595/2016/ Bulletin/Mizo

**Date of issue:** 11<sup>th</sup> March, 2016

| Parameters        | 12.03.2016   | 13.03.2016 | 14.03.2016 | 15.03.2016      | 16.03.2016    |
|-------------------|--------------|------------|------------|-----------------|---------------|
| Rainfall (mm)     | 0            | 0          | 0          | 0               | 0             |
| Max Temp (oC)     | 32           | 32         | 32         | 30              | 30            |
| Min Temp (oC)     | 16           | 17         | 18         | 17              | 17            |
| Cloud Coverage    | Mainly clear | Clear sky  | Clear sky  | Partially clear | Mainly cloudy |
| Max RH (%)        | 66           | 69         | 63         | 69              | 62            |
| Min RH (%)        | 24           | 27         | 26         | 24              | 19            |
| Wind Speed (Kmph) | 4            | 4          | 4          | 4               | 4             |
| *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- February 1-29, 2016 (Percent of deviation from normal in parenthesis)**

|                                     |                                     |                                   |                                    |
|-------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| <b>Aizawl- 00.0mm</b><br>(11.5mm)   | <b>Champhai- 00.0mm</b><br>(12.1mm) | <b>Saiha- 00.0 mm</b><br>(13.9mm) | <b>Kolasib- 00.0mm</b><br>(14.8mm) |
| <b>Lawngtlai-00.0mm</b><br>(07.1mm) | <b>Lunglei-5.34mm</b><br>(08.9mm)   | <b>Mamit-00.0mm</b><br>(07.2mm)   | <b>Serchhip-00.0mm</b><br>(12.9mm) |

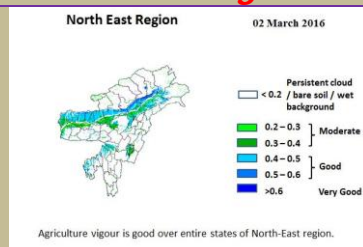
**Ni thum kaltha sik leh sa dinhmun tlangpui**

**March 12, 2016 atanga March 16, 2016 sik leh sa dinhmun hmuhlawk dan**

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 32-33°C a ni ang a.A vawh lai ber in 14-17°C ni tur ah beisei a ni.RH san lai berin 70-90% leh a hniam lai berin 25-30% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 3-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

**Weekly cumulative rainfall: 01.0mm**

**NDVI for Mizoram**



NDVI of soil moisture for Mizoram is moderate wet condition.



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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>Harvest stage</b> |                                                  | <ul style="list-style-type: none"> <li>• A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur.</li> <li>• Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur.</li> <li>• Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur.</li> <li>• Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur.</li> <li>• Certified thlai chi chauh hman tur.</li> <li>• Ser kung bula tuitling chu paihfai vek tur.</li> <li>• A tiak inchen tlang chauh phun atan hman tur.</li> <li>• A zar tliak leh hnip chu paih fai zel tur.</li> <li>• Thlai chu hrisel taka enkawl tur.</li> </ul> |
| <b>Oil palm</b>                     | <b>Harvest stage</b> |                                                  | <ul style="list-style-type: none"> <li>• Oil palm kung bul chu tihfai a a zar thlak bawk tur.</li> <li>• Leitha chu thlai pakhat ah 600:200:100g a pek tur.</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> <li>• Oil palm rah chu a puitlin</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                 |



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|                    |                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------|-----------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                             |  | <p>hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.</p> <ul style="list-style-type: none"> <li>Balhla kung bul chu tihfai a a zar thlak baw tur.</li> <li>Leitha chu thlai pakhatath 600:200:100g a pek tur.</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 baw tur.</li> <li>A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam baw ani.</li> <li>A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.</li> </ul> |
| <b>Balhla</b>      | <b>Flower/Harvest stage</b> |  | <ul style="list-style-type: none"> <li>A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.</li> <li>A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur.</li> <li>Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur.</li> <li>Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.</li> </ul>                                                                                                                                                                                                                                                |
| <b>Sapthei</b>     | <b>Transplant stage</b>     |  | <ul style="list-style-type: none"> <li>A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur.</li> <li>Chemical pek atangin ni 55-60 chhungin a par a chhuah thei</li> </ul>                                                                                                                                                                                                                                                                                                                                                            |
| <b>Lakhuihthei</b> | <b>A par lai</b>            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |



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|                             |                   |                                                                                  |                                                                                                                                                                                                                                                                                                                |
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|                             |                   |                                                                                  | ang.<br>• Leitha chu thlai pakhat ah 60:50:60g a pek tur.<br>• Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.                                                                                                                                                                             |
|                             |                   | <b>Corm borer</b>                                                                | • Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur                                                                                                                                                                                                        |
| <b>Cucurbitaceous crops</b> | <b>A rah lai</b>  |                                                                                  | • Ni 7 danah tui chu tha taka pek tur.<br>• Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur.<br>• Thlai pakhatah a par nasat lain urea chu 70g a pek tur. |
| <b>Bawrh Saiabe</b>         | <b>A chin dan</b> | 1. Nursery tihfai a tui tlem pek tur.<br>2. Phunsawn hnuah tui tha taka pek tur. | • A kung bulthut ah hnim chheh darh tur.<br>• A khat tawkin tui pek tur.<br>• A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.                                                                                                                                                                          |
|                             |                   | 1. Aphids                                                                        | • Surf tuiin thlai chu kah tur.<br>• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur                                                                                                                                                |
|                             |                   | 2. Flea beetle                                                                   | • Pangang tui leh a puitling te chu a kung atangin thin thlak tur.<br>• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml                                                                                                                       |



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|  |  |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--|--|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |                                  | a kah tur.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|  |  | <b>3. Epilachna beetle</b>       | <ul style="list-style-type: none"> <li>• A hnah a pangang leh a tui awm chu paihfai tur.</li> <li>• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.</li> </ul>                                                                                                                                                                                                                                                                       |
|  |  | <b>4. Leaf hopper</b>            | <ul style="list-style-type: none"> <li>• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>                                                                                                                                                                                                                                                            |
|  |  | <b>Bacterial wilt</b>            | <ul style="list-style-type: none"> <li>• Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur.</li> <li>• Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei.</li> <li>• Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.</li> </ul> |
|  |  | <b>Damping off</b>               | <ul style="list-style-type: none"> <li>• Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur.</li> <li>• Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.</li> </ul>                                                                                                                                                 |
|  |  | <b>Leaf spot and leaf blotch</b> | <ul style="list-style-type: none"> <li>• Dithane M-45 chu tui litre khatah 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur.</li> <li>• Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.</li> </ul>                                                                                                                                                                                        |
|  |  | <b>Leaf spot leh leaf blotch</b> | <ul style="list-style-type: none"> <li>• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu</li> </ul>                                                                                                                                                                                                                                                                                                                               |



# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



|             |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------|------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |            |           | <p>1g a pawlhin karkhat danah vawi 2/3 kah thin tur.</p> <ul style="list-style-type: none"> <li>• Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.</li> </ul>                                                                                                                                                                                                                                                   |
| French bean | A par lai  | KOLASIB   | <ul style="list-style-type: none"> <li>• Bean hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>• Lei chu boruak kal that nan laihphut thin tur.</li> <li>• A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.</li> </ul>                                                                                                                                                                                        |
|             |            | MAMIT     |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|             |            | AIZAWL    | Blister beetle                                                                                                                                                                                                                                                                                                                                                                                                                         |
|             |            | CHAMPAI   |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Bawkbawn    | A chin dan | SERCHHIP  | <ul style="list-style-type: none"> <li>• Rannung ho chu mankhawmin thah vek tur.</li> <li>• Cypermethrin 2g chu tui litre khata pawlhin kah thin tur</li> <li>• Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur.</li> <li>• A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</li> </ul> |
| Tomato      | A chin dan | LUNGLEI   | <ul style="list-style-type: none"> <li>• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</li> <li>• Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</li> </ul>                                                                                                                                                                                                |
|             |            | LAWNGTLAI | Aphids                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|             |            | SAIHA     |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|             |            |           | Epilachna beetle                                                                                                                                                                                                                                                                                                                                                                                                                       |





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|                     |                  |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------|------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Buh                 | Nursery stage    | Pre kharif rice   | <p>beetle a veng thei</p> <ul style="list-style-type: none"> <li>• A chi tha leh khat tha chauh hman tur.</li> <li>• Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</li> <li>• Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</li> </ul>                                                                                                                                                                                                                                    |
|                     |                  | Raised bed method | <ul style="list-style-type: none"> <li>• A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng.</li> <li>• Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</li> </ul>                                                                                                                                                                                                                                                             |
| Vaimim              | A chin dan       |                   | <ul style="list-style-type: none"> <li>• Lei chu vawi 2/3 laihphut phawt tur.</li> <li>• A chi chu a line indawt a chin tur</li> <li>• A chi chu kg khatah Thiram 4g a chiah tur.</li> <li>• Hectare khatah buh chi chu 20-25kg hman tur.</li> <li>• Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.</li> </ul> |
| Sawhthing leh Aieng | Land preparation |                   | <ul style="list-style-type: none"> <li>• Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>• Lei chu boruak kal that nan laihphut thin tur.</li> <li>• Nitrogen leitha chu an mamawh taw kanga pek tur.</li> </ul>                                                                                                                                                                                                                                                                                         |



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|              |                       |                                                          |                                                                                                                                                                                                                          |
|--------------|-----------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |                       | <b>Thrips</b>                                            | <ul style="list-style-type: none"> <li>Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.</li> </ul>                                                                                                   |
|              |                       | <b>Scales</b>                                            | <ul style="list-style-type: none"> <li>Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.</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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|                         |   |                                               |                                                                                          |
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Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Mamit

**Period:** 12 - 16 March, 2016

**Bulletin No:** -595/2016/ Bulletin/English

**Date of issue:** 11<sup>th</sup> March, 2016

| Parameters               | 12.03.2016   | 13.03.2016 | 14.03.2016 | 15.03.2016      | 16.03.2016      |
|--------------------------|--------------|------------|------------|-----------------|-----------------|
| <b>Rainfall (mm)</b>     | 1            | 0          | 0          | 0               | 0               |
| <b>Max Temp (°C)</b>     | 32           | 32         | 32         | 30              | 30              |
| <b>Min Temp (°C)</b>     | 16           | 16         | 17         | 15              | 14              |
| <b>Cloud Coverage</b>    | Mainly clear | Clear sky  | Clear sky  | Partially clear | Partially clear |
| <b>Max RH (%)</b>        | 74           | 72         | 81         | 85              | 97              |
| <b>Min RH (%)</b>        | 25           | 22         | 25         | 33              | 38              |
| <b>Wind Speed (Kmph)</b> | 6            | 6          | 2          | 2               | 2               |
| <b>*Wind Direction</b>   | S-E          | S-E        | E          | S-W             | 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- February 1-29, 2016 (Percent of deviation from normal in parenthesis)**

|                                     |                                     |                                   |                                    |
|-------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| <b>Aizawl- 00.0mm</b><br>(11.5mm)   | <b>Champhai- 00.0mm</b><br>(12.1mm) | <b>Saiha- 00.0 mm</b><br>(13.9mm) | <b>Kolasib- 00.0mm</b><br>(14.8mm) |
| <b>Lawngtlai-00.0mm</b><br>(07.1mm) | <b>Lunglei-5.34mm</b><br>(08.9mm)   | <b>Mamit-00.0mm</b><br>(07.2mm)   | <b>Serchhip-00.0mm</b><br>(12.9mm) |

**Weather summary of the past three days**

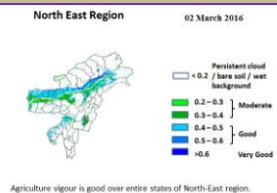
The temperature range for maximum and minimum were 26.1-28.4°C and 17.1-19.5°C respectively. Clear sky was observed. Wind direction is southeasterly. Maximum RH observed 62-87% & minimum of 28-45%. Rainfall recorded for the past three days is **000.00mm.** (Source- [mosdac.gov.in](http://mosdac.gov.in))

**Weather forecast valid from 12<sup>th</sup> March, 2016 To 16<sup>th</sup> March, 2016.**

There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 30-32°C and 14-16°C. Maximum relative humidity is expected in the range of 72-97% and minimum may from 22-38%. Wind direction would be southeasterly to easterly and southwesterly with the wind speed of 2-6 km per hour. Partially clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 01.0 mm**

**NDVI for Mizoram**



NDVI of soil moisture for Mizoram is moderate wet condition.



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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</b>           | <b>Vegetative/<br/>Harvesting<br/>stage</b> | KOLASIB<br>MAMIT<br>AIZAWL               | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Apply Bordeaux mixture to the plant after pruning.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| <b>Oil plam</b>                     | <b>Vegetative/<br/>Harvesting<br/>stage</b> | SERCHHIP<br>LUNGLEI                      | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Apply Bordeaux mixture to the plant after pruning.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| <b>Banana</b>                       | <b>Vegetative/<br/>harvesting</b>           | LAWNGTLAI<br>SAIHA                       | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Pruning on a regular basis removes unwanted</li> </ul>                                                                                                                                 |



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|                  |                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------|-------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                         |  | <p>or suckers, keeps production mats in optimum condition, saves fertilizer, reduces pest and disease.</p> <ul style="list-style-type: none"> <li>❖ Fruits are harvested when they attain full size, develop attractive yellow colour.</li> </ul>                                                                                                                                                                                                                                                                                                                          |
| <b>Pineapple</b> | <b>Vegetative stage</b> |  | <ul style="list-style-type: none"> <li>❖ Colocassia, yam, chilies, cabbage, cauliflower, sweet potato, pigeon pea, green gram, black gram, sesame, etc. intercrop with pine apple which give additional income to farmer.</li> <li>❖ Pineapple plants should be irrigated with five or six irrigations during the dry months at intervals of 20–25 days.</li> <li>❖ Cover crops like sweet potato, etc., can also be grown to conserve soil moisture.</li> <li>❖ Mulching with straw and other plant materials is the technique for soil moisture conservation.</li> </ul> |
| <b>Brinjal</b>   | <b>Transplant stage</b> |  | <ul style="list-style-type: none"> <li>❖ Brinjal is planted in well pulverized and leveled field.</li> <li>❖ Brinjal is normally planted in raised beds of 60 to 75 cm width.</li> <li>❖ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation.</li> <li>❖ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.</li> </ul>                                                                                                          |
| <b>Chilli</b>    | <b>Transplant stage</b> |  | <ul style="list-style-type: none"> <li>❖ Chilli is planted in well pulverized and leveled field.</li> <li>❖ Chilli is normally planted in raised beds of 60 to 75 cm width.</li> <li>❖ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation.</li> </ul>                                                                                                                                                                                                                                                         |





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|                          |                          |                 |                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|--------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                          |                 | <ul style="list-style-type: none"> <li>❖ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.</li> </ul>                                                                                                                                                                                      |
| <b>Tomato</b>            | <b>Flowering stage</b>   | KOLASIB         | <ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation in the plant.</li> </ul>                                                                                                                                                                                |
| <b>Pineapple</b>         | <b>Gap filling stage</b> | MAMIT<br>AIZAWL | <ul style="list-style-type: none"> <li>❖ Double row planting is done by alternating two rows of crops by a wider mound or path.</li> <li>❖ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy season, they may begin to decay.</li> </ul> |
| <b>French bean</b>       | <b>Sowing stage</b>      | SERCHHIP        | <ul style="list-style-type: none"> <li>❖ Plough the field properly, at least 2-3 times.</li> <li>❖ Mix fertilizer with FYM 50:60:60Kg/ha.</li> <li>❖ Sow 2-3 seed per whole.</li> <li>❖ Spacing should be 30 X 20 cm.</li> </ul>                                                                                                                                           |
| <b>Cowpea</b>            | <b>Sowing stage</b>      | LUNGLEI         | <ul style="list-style-type: none"> <li>❖ Plough the field properly, at least 2-3 times.</li> <li>❖ Mix fertilizer with FYM 50:60:60Kg/ha.</li> <li>❖ Sow 2-3 seed per whole.</li> <li>❖ Spacing should be 30 X 20 cm.</li> </ul>                                                                                                                                           |
| <b>Mustard and toria</b> | <b>Harvest stage</b>     | LAWNGTLAI       | <ul style="list-style-type: none"> <li>❖ Siliqua and plants turns green to yellow at physiological maturity stage.</li> <li>❖ Cut the plant from base.</li> <li>❖ Sundry for 3 to 5 days.</li> </ul>                                                                                                                                                                       |
| <b>Pea</b>               | <b>Harvest stage</b>     | SAIHA           | <ul style="list-style-type: none"> <li>❖ Green pods are harvested for consumption as vegetables</li> <li>❖ For grain or seed purpose, pods are</li> </ul>                                                                                                                                                                                                                  |



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|                            |                      |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|----------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                      |                                                          | <p>harvested when fully matured</p> <ul style="list-style-type: none"> <li>❖ Total harvest can be done when pods and plants turns green to yellow.</li> </ul>                                                                                                                                                                                                                                                                                   |
| <b>Ginger and turmeric</b> | <b>Harvest stage</b> |                                                          | <ul style="list-style-type: none"> <li>❖ Turmeric and ginger is harvested when leaves start yellowing and ultimately the stem dries down.</li> <li>❖ The plants are-cut close to the ground.</li> <li>❖ The crop is irrigated lightly for easy digging.</li> <li>❖ Harvesting consists of digging of underground clumps of rhizomes with</li> <li>❖ Pick axe or digging fork.</li> <li>❖ Fingers are separated from mother rhizomes.</li> </ul> |
| <b>Pig</b>                 | <b>All stages</b>    | <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>Adult stage</b>   | <b>Ranikhet Disease.</b>                                 | <ul style="list-style-type: none"> <li>• F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> </ul>                                                                                                                                                                                                                                                                                                               |
|                            | <b>Early stage</b>   | <b>Coccidiosis</b>                                       | 1. Amprolium or coccidiostat                                                                                                                                                                                                                                                                                                                                                                                                                    |



# 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)



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Mizoram Centre, Kolasib- 796081, MIZORAM

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**District:** Mamit

**Period:** 12 - 16 March, 2016

**Bulletin No:** -595/2016/ Bulletin/Mizo

**Date of issue:** 11<sup>th</sup> March, 2016

| Parameters        | 12.03.2016   | 13.03.2016 | 14.03.2016 | 15.03.2016      | 16.03.2016      |
|-------------------|--------------|------------|------------|-----------------|-----------------|
| Rainfall (mm)     | 1            | 0          | 0          | 0               | 0               |
| Max Temp (oC)     | 32           | 32         | 32         | 30              | 30              |
| Min Temp (oC)     | 16           | 16         | 17         | 15              | 14              |
| Cloud Coverage    | Mainly clear | Clear sky  | Clear sky  | Partially clear | Partially clear |
| Max RH (%)        | 74           | 72         | 81         | 85              | 97              |
| Min RH (%)        | 25           | 22         | 25         | 33              | 38              |
| Wind Speed (Kmph) | 6            | 6          | 2          | 2               | 2               |
| *Wind Direction   | S-E          | S-E        | E          | S-W             | 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- February 1-29, 2016 (Percent of deviation from normal in parenthesis)**

|                                     |                                     |                                   |                                    |
|-------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| <b>Aizawl- 00.0mm</b><br>(11.5mm)   | <b>Champhai- 00.0mm</b><br>(12.1mm) | <b>Saiha- 00.0 mm</b><br>(13.9mm) | <b>Kolasib- 00.0mm</b><br>(14.8mm) |
| <b>Lawngtlai-00.0mm</b><br>(07.1mm) | <b>Lunglei-5.34mm</b><br>(08.9mm)   | <b>Mamit-00.0mm</b><br>(07.2mm)   | <b>Serchhip-00.0mm</b><br>(12.9mm) |

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

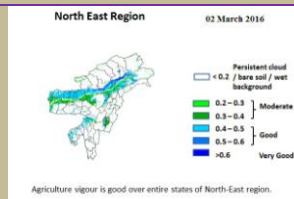
**March 12, 2016 atanga March 16, 2016 sik leh sa dinhmun hmuhlawk dan**

Khua a lum lai berin 26.1-28.4°C leh a vawh lai berin 17.1-19.5°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 62-87% leh a hniam lai 28-45% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **000.00mm** ani. (Source- **Mosdac.gov.in**)

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 30-32°C a ni ang a. A vawh lai ber in 14-16°C ni tur ah beisei a ni. RH san lai berin 72-97% leh a hniam lai berin 22-38% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-6 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

**Weekly cumulative rainfall: 01.0mm**

**NDVI for Mizoram**



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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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>Harvest stage</b> |                                                  | <ul style="list-style-type: none"> <li>• A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. Arawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur.</li> <li>• Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur.</li> <li>• Lei, balu leh bawngkek leitha chu a inzat theuha pawlin pek tur.</li> <li>• Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur.</li> <li>• Certified thlai chi chauh hman tur.</li> <li>• Ser kung bula tuitling chu paihfai vek tur.</li> <li>• A tiak inchen tlang chauh phun atan hman tur.</li> <li>• A zar tliak leh hnip chu paihfai zel tur.</li> <li>• Thlai chu hrisel taka enkawl tur.</li> </ul> |
| <b>Oil palm</b>                     | <b>Harvest stage</b> |                                                  | <ul style="list-style-type: none"> <li>• Oil palm kung bul chu tihfai a a zar thlak bawk tur.</li> <li>• Leitha chu thlai pakhat 600:200:100g a pek tur.</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>                                                                                                                                                                                                                                                                                                                                                                                                                       |



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|             |                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------|----------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                      |  | <ul style="list-style-type: none"> <li>Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                               |
| Balhla      | Flower/Harvest stage |  | <ul style="list-style-type: none"> <li>Balhla kung bul chu tihfai a a zar thlak bawk tur.</li> <li>Leitha chu thlai pakhatath 600:200:100g a pek tur.</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> <li>A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani.</li> <li>A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.</li> </ul> |
| Sapthei     | Transplant stage     |  | <ul style="list-style-type: none"> <li>A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.</li> <li>A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur.</li> <li>Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur.</li> <li>Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.</li> </ul>                                                                                                                                                             |
| Lakhuihthei | A par lai            |  | <ul style="list-style-type: none"> <li>A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur.</li> <li>Chemical pek atangin ni 55-60</li> </ul>                                                                                                                                                                                                                                                                                                      |





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|                             |                   |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------|-------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             |                   | KOLASIB                                                                          | <p>chhungin a par a chhuah thei ang.</p> <ul style="list-style-type: none"> <li>Leitha chu thlai pakhat ah 60:50:60g a pek tur.</li> <li>Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.</li> </ul>                                                                                                                                                |
|                             |                   | <b>Corm borer</b>                                                                | <ul style="list-style-type: none"> <li>Carbofuran 3G chu hectare khatah 1.5kg.a i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur</li> </ul>                                                                                                                                                                                                               |
| <b>Cucurbitaceous crops</b> | <b>A rah lai</b>  | MAMIT<br>AIZAWL<br>CHAMPA<br>SERCHHIP                                            | <ul style="list-style-type: none"> <li>Ni 7 danah tui chu tha taka pek tur.</li> <li>Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur.</li> <li>Thlai pakhatah a par nasat lain urea chu 70g a pek tur.</li> </ul> |
| <b>Bawrhsaiabe</b>          | <b>A chin dan</b> | 1. Nursery tihfai a tui tlem pek tur.<br>2. Phunsawn hnuah tui tha taka pek tur. | <ul style="list-style-type: none"> <li>A kung bulthut ah hnim chheh darh tur.</li> <li>A khat tawkin tui pek tur.</li> <li>A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.</li> </ul>                                                                                                                                                                          |
|                             |                   | 1. Aphids                                                                        | <ul style="list-style-type: none"> <li>Surf tuiin thlai chu kah tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur</li> </ul>                                                                                                                                                    |
|                             |                   | 2. Flea beetle                                                                   | <ul style="list-style-type: none"> <li>Pangang tui leh a puitling te chu a kung atangin thin thlak tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a</li> </ul>                                                                                                                         |



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|  |  |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--|--|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |                                  | kah tur.                                                                                                                                                                                                                                                                                                                                                                                                                             |
|  |  | <b>3. Epilachna beetle</b>       | <ul style="list-style-type: none"> <li>A hnah a pangang leh a tui awm chu paihfai tur.</li> <li>Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.</li> </ul>                                                                                                                                                                                                                                                                     |
|  |  | <b>4. Leaf hopper</b>            | <ul style="list-style-type: none"> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>                                                                                                                                                                                                                                                        |
|  |  | <b>Bacterial wilt</b>            | <ul style="list-style-type: none"> <li>Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur.</li> <li>Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei.</li> <li>Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.</li> </ul> |
|  |  | <b>Damping off</b>               | <ul style="list-style-type: none"> <li>Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur.</li> <li>Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.</li> </ul>                                                                                                                                               |
|  |  | <b>Leaf spot and leaf blotch</b> | <ul style="list-style-type: none"> <li>Dithane M-45 chu tui litre khatah 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur.</li> <li>Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.</li> </ul>                                                                                                                                                                                      |
|  |  | <b>Leaf spot leh leaf blotch</b> | <ul style="list-style-type: none"> <li>Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi</li> </ul>                                                                                                                                                                                                                                                                                           |



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|             |               |                                       |                                                                                                                                                                                                                                                                                                              |
|-------------|---------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |               |                                       | 2/3 kah thin tur.<br>• Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.                                                                                                                                                                                                               |
| French bean | A par lai     | KOLASIB                               | <ul style="list-style-type: none"> <li>• Bean hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>• Lei chu boruak kal that nan laihphut thin tur.</li> <li>• A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.</li> </ul>                                                              |
|             |               | Blister beetle                        | <ul style="list-style-type: none"> <li>• Rannung ho chu mankhawmin thah vek tur.</li> <li>• Cypermethrin 2g chu tui litre khata pawlh kah thin tur</li> </ul>                                                                                                                                                |
| Bawkbawn    | A chin dan    | MAMIT<br>AIZAWL<br>CHAMPA<br>SERCHHIP | <ul style="list-style-type: none"> <li>• Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlh leh tur.</li> <li>• A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</li> </ul> |
| Tomato      | A chin dan    | LUNGLEI                               | <ul style="list-style-type: none"> <li>• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</li> <li>• Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</li> </ul>                                                                      |
|             |               | Aphids                                | <ul style="list-style-type: none"> <li>• Surf tuiin thlai chu kah tur.</li> <li>• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>                                                                                     |
|             |               | Epilachna beetle                      | <ul style="list-style-type: none"> <li>• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei</li> </ul>                                                                                                                                                                              |
| Buh         | Nursery stage | Pre kharif rice                       | <ul style="list-style-type: none"> <li>• A chi tha leh khat tha chauh</li> </ul>                                                                                                                                                                                                                             |



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|                     |                  |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |                  | KOLASIB                                          | hman tur.<br>• Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.<br>• Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.                                                                                                                                                                                                                                                                                 |
|                     |                  | MAMIT<br>AIZAWL<br>CHAMPA<br>SERCHHIP<br>LUNGLEI | <b>Raised bed method</b><br>• A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng.<br>• Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.                                                                                                                                                                                                               |
| Vaimim              | A chin dan       |                                                  | • Lei chu vawi 2/3 laihphut phawt tur.<br>• A chi chu a line indawt a chin tur<br>• A chi chu kg khatah Thiram 4g a chiah tur.<br>• Hectare khatah buh chi chu 20-25kg hman tur.<br>• Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur. |
| Sawhthing leh Aieng | Land preparation | LAWNGTLAI<br>SAIHA                               | • Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.<br>• Lei chu boruak kal that nan laihphut thin tur.<br>• Nitrogen leitha chu an mamawh taw kanga pek tur.                                                                                                                                                                                                                                                                             |
|                     |                  | <b>Thrips</b>                                    | • Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin                                                                                                                                                                                                                                                                                                                                                                                  |



# 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)



|              |                       |                                                          |                                                                                                                                                                                |
|--------------|-----------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |                       |                                                          | kah tur.                                                                                                                                                                       |
|              |                       | <b>Scales</b>                                            | <ul style="list-style-type: none"> <li>Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.</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>Thla 16 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)</li> <li>Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>Kumkhat hnu ah vaccine pek leh tur.</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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# 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: 12 - 16 March, 2016**

**Bulletin No: -595/2016/ Bulletin/English**

**Date of issue: 11<sup>th</sup> March, 2016**

| Parameters               | 12.03.2016      | 13.03.2016      | 14.03.2016 | 15.03.2016    | 16.03.2016   |
|--------------------------|-----------------|-----------------|------------|---------------|--------------|
| <b>Rainfall (mm)</b>     | 0               | 0               | 0          | 0             | 0            |
| <b>Max Temp (°C)</b>     | 32              | 33              | 34         | 33            | 33           |
| <b>Min Temp (°C)</b>     | 16              | 17              | 16         | 16            | 15           |
| <b>Cloud Coverage</b>    | Partially clear | Partially clear | Clear sky  | Mainly cloudy | Mainly clear |
| <b>Max RH (%)</b>        | 66              | 58              | 71         | 65            | 76           |
| <b>Min RH (%)</b>        | 23              | 24              | 20         | 26            | 26           |
| <b>Wind Speed (Kmph)</b> | 4               | 4               | 4          | 3             | 4            |
| <b>*Wind Direction</b>   | 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- February 1-29, 2016 (Percent of deviation from normal in parenthesis)**

|                                     |                                     |                                   |                                    |
|-------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| <b>Aizawl- 00.0mm</b><br>(11.5mm)   | <b>Champhai- 00.0mm</b><br>(12.1mm) | <b>Saiha- 00.0 mm</b><br>(13.9mm) | <b>Kolasib- 00.0mm</b><br>(14.8mm) |
| <b>Lawngtlai-00.0mm</b><br>(07.1mm) | <b>Lunglei-5.34mm</b><br>(08.9mm)   | <b>Mamit-00.0mm</b><br>(07.2mm)   | <b>Serchhip-00.0mm</b><br>(12.9mm) |

**Weather summary of the past three days**

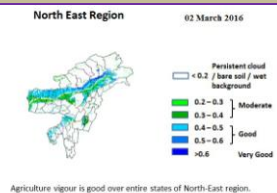
The temperature range for maximum and minimum were 20.1-24.5°C and 14.2-15.1°C respectively. Clear sky was observed. Wind direction is southeasterly. Maximum RH observed 67-80% & minimum of 24-48%. Rainfall recorded for the past three days is **000.00mm.** (Source- [mosdac.gov.in](http://mosdac.gov.in))

**Weather forecast valid from 12<sup>th</sup> March, 2016 To 16<sup>th</sup> March, 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 32-33°C and 15-17°C. Maximum relative humidity is expected in the range of 58-76% and minimum may from 20-26%. Wind direction would be easterly with the wind speed of 4 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

**NDVI for Mizoram**



NDVI of soil moisture for Mizoram is moderate wet condition.



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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</b>           | <b>Vegetative/<br/>Harvesting<br/>stage</b> | KOLASIB<br>MAMIT<br>AIZAWL               | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Apply Bordeaux mixture to the plant after pruning.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| <b>Oil plam</b>                     | <b>Vegetative/<br/>Harvesting<br/>stage</b> | SERCHHIP<br>LUNGLEI                      | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Apply Bordeaux mixture to the plant after pruning.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| <b>Banana</b>                       | <b>Vegetative/<br/>harvesting</b>           | LAWNGTLAI<br>SAIHA                       | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Pruning on a regular basis removes unwanted</li> </ul>                                                                                                                                 |



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|                  |                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------|-------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                         |  | <p>or suckers, keeps production mats in optimum condition, saves fertilizer, reduces pest and disease.</p> <ul style="list-style-type: none"> <li>❖ Fruits are harvested when they attain full size, develop attractive yellow colour.</li> </ul>                                                                                                                                                                                                                                                                                                                          |
| <b>Pineapple</b> | <b>Vegetative stage</b> |  | <ul style="list-style-type: none"> <li>❖ Colocassia, yam, chilies, cabbage, cauliflower, sweet potato, pigeon pea, green gram, black gram, sesame, etc. intercrop with pine apple which give additional income to farmer.</li> <li>❖ Pineapple plants should be irrigated with five or six irrigations during the dry months at intervals of 20–25 days.</li> <li>❖ Cover crops like sweet potato, etc., can also be grown to conserve soil moisture.</li> <li>❖ Mulching with straw and other plant materials is the technique for soil moisture conservation.</li> </ul> |
| <b>Brinjal</b>   | <b>Transplant stage</b> |  | <ul style="list-style-type: none"> <li>❖ Brinjal is planted in well pulverized and leveled field.</li> <li>❖ Brinjal is normally planted in raised beds of 60 to 75 cm width.</li> <li>❖ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation.</li> <li>❖ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.</li> </ul>                                                                                                          |
| <b>Chilli</b>    | <b>Transplant stage</b> |  | <ul style="list-style-type: none"> <li>❖ Chilli is planted in well pulverized and leveled field.</li> <li>❖ Chilli is normally planted in raised beds of 60 to 75 cm width.</li> <li>❖ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation.</li> </ul>                                                                                                                                                                                                                                                         |



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|                          |                          |                 |                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|--------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                          |                 | <ul style="list-style-type: none"> <li>❖ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.</li> </ul>                                                                                                                                                                                      |
| <b>Tomato</b>            | <b>Flowering stage</b>   | KOLASIB         | <ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation in the plant.</li> </ul>                                                                                                                                                                                |
| <b>Pineapple</b>         | <b>Gap filling stage</b> | MAMIT<br>AIZAWL | <ul style="list-style-type: none"> <li>❖ Double row planting is done by alternating two rows of crops by a wider mound or path.</li> <li>❖ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy season, they may begin to decay.</li> </ul> |
| <b>French bean</b>       | <b>Sowing stage</b>      | SERCHHIP        | <ul style="list-style-type: none"> <li>❖ Plough the field properly, at least 2-3 times.</li> <li>❖ Mix fertilizer with FYM 50:60:60Kg/ha.</li> <li>❖ Sow 2-3 seed per whole.</li> <li>❖ Spacing should be 30 X 20 cm.</li> </ul>                                                                                                                                           |
| <b>Cowpea</b>            | <b>Sowing stage</b>      | LUNGLEI         | <ul style="list-style-type: none"> <li>❖ Plough the field properly, at least 2-3 times.</li> <li>❖ Mix fertilizer with FYM 50:60:60Kg/ha.</li> <li>❖ Sow 2-3 seed per whole.</li> <li>❖ Spacing should be 30 X 20 cm.</li> </ul>                                                                                                                                           |
| <b>Mustard and toria</b> | <b>Harvest stage</b>     | LAWNGTLAI       | <ul style="list-style-type: none"> <li>❖ Siliqua and plants turns green to yellow at physiological maturity stage.</li> <li>❖ Cut the plant from base.</li> <li>❖ Sundry for 3 to 5 days.</li> </ul>                                                                                                                                                                       |
| <b>Pea</b>               | <b>Harvest stage</b>     | SAIHA           | <ul style="list-style-type: none"> <li>❖ Green pods are harvested for consumption as vegetables</li> <li>❖ For grain or seed purpose, pods are</li> </ul>                                                                                                                                                                                                                  |



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|                            |                      |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|----------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                      |                                                          | <p>harvested when fully matured</p> <ul style="list-style-type: none"> <li>❖ Total harvest can be done when pods and plants turns green to yellow.</li> </ul>                                                                                                                                                                                                                                                                                   |
| <b>Ginger and turmeric</b> | <b>Harvest stage</b> |                                                          | <ul style="list-style-type: none"> <li>❖ Turmeric and ginger is harvested when leaves start yellowing and ultimately the stem dries down.</li> <li>❖ The plants are-cut close to the ground.</li> <li>❖ The crop is irrigated lightly for easy digging.</li> <li>❖ Harvesting consists of digging of underground clumps of rhizomes with</li> <li>❖ Pick axe or digging fork.</li> <li>❖ Fingers are separated from mother rhizomes.</li> </ul> |
| <b>Pig</b>                 | <b>All stages</b>    | <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>Adult stage</b>   | <b>Ranikhet Disease.</b>                                 | <ul style="list-style-type: none"> <li>• F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> </ul>                                                                                                                                                                                                                                                                                                               |
|                            | <b>Early stage</b>   | <b>Coccidiosis</b>                                       | 1. Amprolium or coccidiostat                                                                                                                                                                                                                                                                                                                                                                                                                    |



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# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Saiha

**Period:** 12 - 16 March, 2016

**Bulletin No:** -595/2016/ Bulletin/Mizo

**Date of issue:** 11<sup>th</sup> March, 2016

| Parameters        | 12.03.2016      | 13.03.2016      | 14.03.2016 | 15.03.2016    | 16.03.2016   |
|-------------------|-----------------|-----------------|------------|---------------|--------------|
| Rainfall (mm)     | 0               | 0               | 0          | 0             | 0            |
| Max Temp (oC)     | 32              | 33              | 34         | 33            | 33           |
| Min Temp (oC)     | 16              | 17              | 16         | 16            | 15           |
| Cloud Coverage    | Partially clear | Partially clear | Clear sky  | Mainly cloudy | Mainly clear |
| Max RH (%)        | 66              | 58              | 71         | 65            | 76           |
| Min RH (%)        | 23              | 24              | 20         | 26            | 26           |
| Wind Speed (Kmph) | 4               | 4               | 4          | 3             | 4            |
| *Wind Direction   | E               | E               | E          | E             | E            |

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

**STATUS OF MONSOON- February 1-29, 2016 (Percent of deviation from normal in parenthesis)**

|                                     |                                     |                                   |                                    |
|-------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| <b>Aizawl- 00.0mm</b><br>(11.5mm)   | <b>Champhai- 00.0mm</b><br>(12.1mm) | <b>Saiha- 00.0 mm</b><br>(13.9mm) | <b>Kolasib- 00.0mm</b><br>(14.8mm) |
| <b>Lawngtlai-00.0mm</b><br>(07.1mm) | <b>Lunglei-5.34mm</b><br>(08.9mm)   | <b>Mamit-00.0mm</b><br>(07.2mm)   | <b>Serchhip-00.0mm</b><br>(12.9mm) |

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

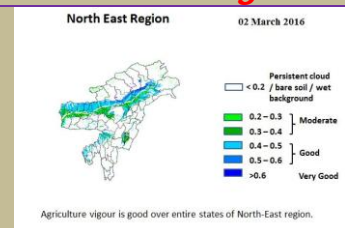
**March 12, 2016 atanga March 16, 2016 sik leh sa dinhmun hmuhlawk dan**

Khua a lum lai berin 20.1-24.5<sup>o</sup>C leh a vawh lai berin 14.2-15.1<sup>o</sup>C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 67-80% leh a hniam lai 24-48% ani ang. Ni 3 kal ta chung a ruah tla zatchu **000.00mm** ani. (Source- Mosdac.gov.in)

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 30-32<sup>o</sup>C a ni ang a. A vawh lai ber in 15-17<sup>o</sup>C ni tur ah beisei a ni. RH san lai berin 58-76% leh a hniam lai berin 20-26% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 4 km ni tur a beisei niin. Ni nga chung lo awm tur ah hian chhum tlem a lan beisei a ni.

**Weekly cumulative rainfall: 00.0mm**

**NDVI for Mizoram**



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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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>Harvest stage</b> |                                                  | <ul style="list-style-type: none"> <li>• A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlath a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur.</li> <li>• Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur.</li> <li>• Lei, balu leh bawngkek leitha chu a inzath theuha pawlhin pek tur.</li> <li>• Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur.</li> <li>• Certified thlai chi chauh hman tur.</li> <li>• Ser kung bula tuitling chu paihfai vek tur.</li> <li>• A tiak inchen tlang chauh phun atan hman tur.</li> <li>• A zar tliak leh hniph chu paihfai zel tur.</li> <li>• Thlai chu hrisel taka enkawl tur.</li> </ul> |
| <b>Oil palm</b>                     | <b>Harvest stage</b> |                                                  | <ul style="list-style-type: none"> <li>• Oil palm kung bul chu tihfai a a zar thlak bawh tur.</li> <li>• Leitha chu thlai pakhatah 600:200:100g a pek tur.</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 bawh tur.</li> <li>• Oil palm rah chu a puitlin hunah te, a rawng inthlak</li> </ul>                                                                                                                                                                                                                                                                                                                                                          |



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|                    |                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|-----------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                             |  | <p>hunah leh a thlum leh thur a pai tam hunah seng tur.</p> <ul style="list-style-type: none"> <li>Balhla kung bul chu tihfai a a zar thlak bawk tur.</li> <li>Leitha chu thlai pakhatath 600:200:100g a pek tur.</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> <li>A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani.</li> <li>A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.</li> </ul> |
| <b>Balhla</b>      | <b>Flower/Harvest stage</b> |  | <ul style="list-style-type: none"> <li>A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.</li> <li>A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur.</li> <li>Polythene bag atangin thla <math>\frac{3}{4}</math> hnu ah huan ah phun sawn leh tur.</li> <li>Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.</li> </ul>                                                                                                                                                                                                  |
| <b>Sapthei</b>     | <b>Transplant stage</b>     |  | <ul style="list-style-type: none"> <li>A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur.</li> <li>Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang.</li> </ul>                                                                                                                                                                                                                                                                                                                                |
| <b>Lakhuihthei</b> | <b>A par lai</b>            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |



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|                             |                   |                                                                                               |                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------|-------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             |                   |                                                                                               | <ul style="list-style-type: none"> <li>Leitha chu thlai pakhat ah 60:50:60g a pek tur.</li> <li>Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.</li> </ul>                                                                                                                                                                                          |
|                             |                   | <b>Corm borer</b>                                                                             | <ul style="list-style-type: none"> <li>Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur</li> </ul>                                                                                                                                                                                                                 |
| <b>Cucurbitaceous crops</b> | <b>A rah lai</b>  |                                                                                               | <ul style="list-style-type: none"> <li>Ni 7 danah tui chu tha taka pek tur.</li> <li>Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur.</li> <li>Thlai pakhtatah a par nasat lain urea chu 70g a pek tur.</li> </ul> |
| <b>Bawrhsaiabe</b>          | <b>A chin dan</b> | <b>1. Nursery tihfai a tui tlem pektur.</b><br><b>2. Phunsawn hnuah tui tha taka pek tur.</b> | <ul style="list-style-type: none"> <li>A kung bulthut ah hnim chheh darh tur.</li> <li>A khat tawkin tui pek tur.</li> <li>A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.</li> </ul>                                                                                                                                                                           |
|                             |                   | <b>1. Aphids</b>                                                                              | <ul style="list-style-type: none"> <li>Surf tuiin thlai chu kah tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur</li> </ul>                                                                                                                                                     |
|                             |                   | <b>2. Flea beetle</b>                                                                         | <ul style="list-style-type: none"> <li>Pangang tui leh a puitling te chu a kung atangin thin thlak tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>                                                                                                                 |
|                             |                   | <b>3. Epilachna beetle</b>                                                                    | <ul style="list-style-type: none"> <li>A hnah a pangang leh a tui awm chu paihfai tur.</li> <li>Methyl parathion 0.5% emaw</li> </ul>                                                                                                                                                                                                                                   |



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|             |           |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------|-----------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |           |                           | Dimethoate 0.3% a kah tur.                                                                                                                                                                                                                                                                                                                                                                                                           |
|             |           | 4. Leaf hopper            | <ul style="list-style-type: none"> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>                                                                                                                                                                                                                                                        |
|             |           | Bacterial wilt            | <ul style="list-style-type: none"> <li>Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur.</li> <li>Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial wilt chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei.</li> <li>Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.</li> </ul> |
|             |           | Damping off               | <ul style="list-style-type: none"> <li>Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur.</li> <li>Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.</li> </ul>                                                                                                                                               |
|             |           | Leaf spot and leaf blotch | <ul style="list-style-type: none"> <li>Dithane M-45 chu tui litre khatah 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah wawi 2/3 kah tur.</li> <li>Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.</li> </ul>                                                                                                                                                                                      |
|             |           | Leaf spot leh leaf blotch | <ul style="list-style-type: none"> <li>Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah wawi 2/3 kah thin tur.</li> <li>Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.</li> </ul>                                                                                                                                                                                        |
| French bean | A par lai |                           | <ul style="list-style-type: none"> <li>Bean hnah, a tang ro leh hnim</li> </ul>                                                                                                                                                                                                                                                                                                                                                      |



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|                 |                      |                                              |                                                                                                                                                                                                                                                                                                                 |
|-----------------|----------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                      |                                              | <p>te chu paihfai vek tur.</p> <ul style="list-style-type: none"> <li>• Lei chu boruak kal that nan laihphut thin tur.</li> <li>• A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.</li> </ul>                                                                                                   |
|                 |                      | <b>Blister beetle</b>                        | <ul style="list-style-type: none"> <li>• Rannung ho chu mankhawmin thah vek tur.</li> <li>• Cypermethrin 2g chu tui litre khata pawlhin kah thin tur</li> </ul>                                                                                                                                                 |
| <b>Bawkbawn</b> | <b>A chin dan</b>    | MAMIT<br>AIZAWL<br>CHAMPAI                   | <ul style="list-style-type: none"> <li>• Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur.</li> <li>• A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</li> </ul> |
| <b>Tomato</b>   | <b>A chin dan</b>    | SERCHHIP                                     | <ul style="list-style-type: none"> <li>• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</li> <li>• Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</li> </ul>                                                                         |
|                 |                      | <b>Aphids</b><br>LUNGLEI                     | <ul style="list-style-type: none"> <li>• Surf tuiin thlai chu kah tur.</li> <li>• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>                                                                                        |
|                 |                      | <b>Epilachna beetle</b>                      | <ul style="list-style-type: none"> <li>• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei</li> </ul>                                                                                                                                                                                 |
| <b>Buh</b>      | <b>Nursery stage</b> | <b>Pre kharif rice</b><br>LAWNGTLAI<br>SAIHA | <ul style="list-style-type: none"> <li>• A chi tha leh khat tha chauh hman tur.</li> <li>• Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</li> <li>• Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi</li> </ul>                                                                    |





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|                            |                         |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------|-------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                         | <b>Raised bed method</b> | <p>chu chiah tur.</p> <ul style="list-style-type: none"> <li>A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng.</li> <li>Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</li> </ul>                                                                                                                                                                                                                                 |
| <b>Vaimim</b>              | <b>A chin dan</b>       |                          | <ul style="list-style-type: none"> <li>Lei chu vawi 2/3 laihphut phawt tur.</li> <li>A chi chu a line indawt a chin tur</li> <li>A chi chu kg khatah Thiram 4g a chiah tur.</li> <li>Hectare khatah buh chi chu 20-25kg hman tur.</li> <li>Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.</li> </ul> |
| <b>Sawhthing leh Aieng</b> | <b>Land preparation</b> |                          | <ul style="list-style-type: none"> <li>Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>Lei chu boruak kal that nan laihphut thin tur.</li> <li>Nitrogen leitha chu an mamawh taw kanga pek tur.</li> </ul>                                                                                                                                                                                                                                                                                     |
|                            |                         | <b>Thrips</b>            | <ul style="list-style-type: none"> <li>Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhinh kah tur.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                        |
|                            |                         | <b>Scales</b>            | <ul style="list-style-type: none"> <li>Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhinh kah tur.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                 |



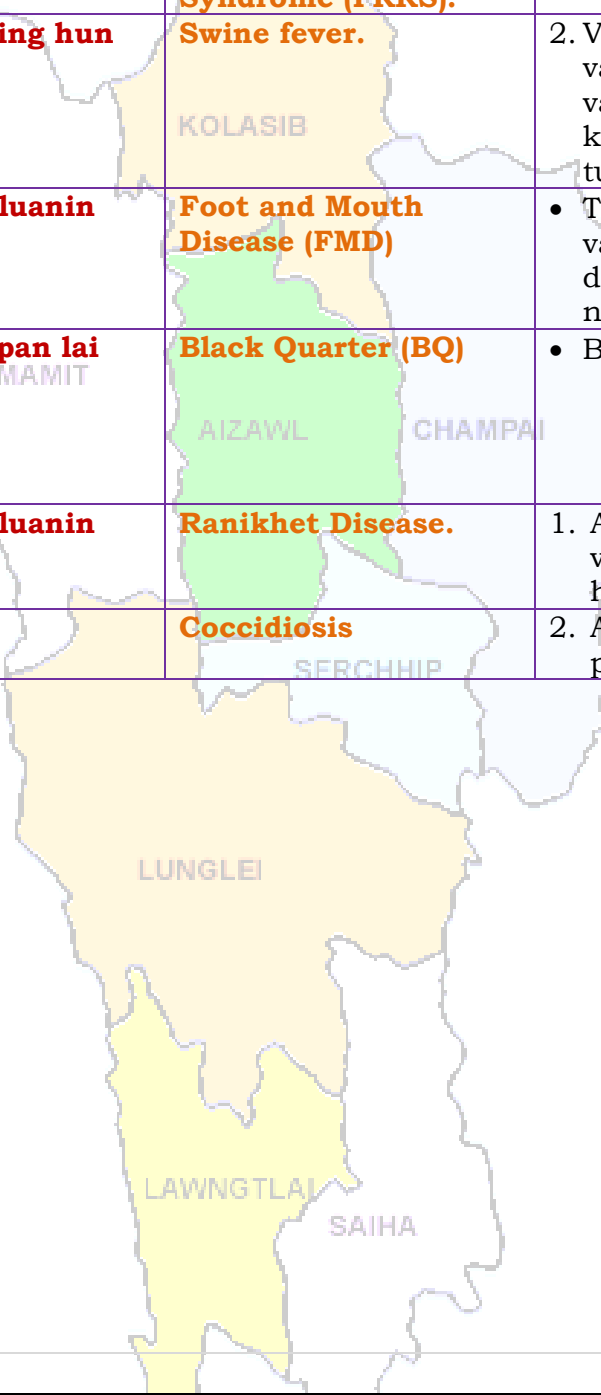
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|       |                |                                                                   |                                                                                                                        |
|-------|----------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Vawk  | Kumtluanin     | Porcine Reproductive Respiratory Syndrome (PRRS).<br>Swine fever. | 1. A natna vei vawk te chu thah a phum tur a ni.                                                                       |
|       | A puitling hun | KOLASIB                                                           | 2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur          |
| Bawng | Kumtluanin     | Foot and Mouth Disease (FMD)                                      | • Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.                               |
|       | A naupan lai   | Black Quarter (BQ)                                                | • Black Quarter Vaccine (BQ)<br>✚ Thla ruk an tlin hunah vaccine lak tan tur.<br>✚ Kumkhat hnu ah vaccine pek leh tur. |
| Ar    | Kumtluanin     | Ranikhet Disease.                                                 | 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.     |
|       |                | Coccidiosis                                                       | 2. Amprolium emaw coccidiostat pek tur.                                                                                |





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## Expert committee members:

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

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Serchhip

**Period:** 12 - 16 March, 2016

**Bulletin No:** -595/2016/ Bulletin/English

**Date of issue:** 11<sup>th</sup> March, 2016

| Parameters               | 12.03.2016   | 13.03.2016      | 14.03.2016 | 15.03.2016    | 16.03.2016      |
|--------------------------|--------------|-----------------|------------|---------------|-----------------|
| <b>Rainfall (mm)</b>     | 0            | 0               | 3          | 3             | 0               |
| <b>Max Temp (°C)</b>     | 31           | 31              | 32         | 32            | 31              |
| <b>Min Temp (°C)</b>     | 15           | 15              | 13         | 13            | 12              |
| <b>Cloud Coverage</b>    | Mainly clear | Partially clear | Clear sky  | Mainly cloudy | Partially clear |
| <b>Max RH (%)</b>        | 70           | 65              | 89         | 90            | 96              |
| <b>Min RH (%)</b>        | 28           | 25              | 24         | 29            | 32              |
| <b>Wind Speed (Kmph)</b> | 4            | 4               | 2          | 2             | 4               |
| <b>*Wind Direction</b>   | S-E          | E               | N-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- February 1-29, 2016 (Percent of deviation from normal in parenthesis)**

|                                     |                                     |                                   |                                    |
|-------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| <b>Aizawl- 00.0mm</b><br>(11.5mm)   | <b>Champhai- 00.0mm</b><br>(12.1mm) | <b>Saiha- 00.0 mm</b><br>(13.9mm) | <b>Kolasib- 00.0mm</b><br>(14.8mm) |
| <b>Lawngtlai-00.0mm</b><br>(07.1mm) | <b>Lunglei-5.34mm</b><br>(08.9mm)   | <b>Mamit-00.0mm</b><br>(07.2mm)   | <b>Serchhip-00.0mm</b><br>(12.9mm) |

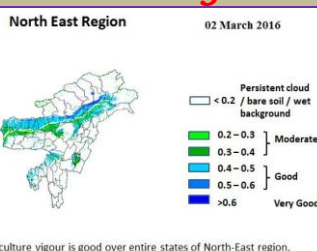
**Weather summary of the past three days**

**Weather forecast valid from 12<sup>th</sup> March, 2016 To 16<sup>th</sup> March, 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 31-32°C and 12-15°C. Maximum relative humidity is expected in the range of 65-96% and minimum may from 24-32%. Wind direction would be southeasterly to northeasterly and easterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 06.0 mm**

**NDVI for Mizoram**



NDVI of soil moisture for Mizoram is moderate wet condition.



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| Main Crop/<br>Animal<br>/Fisheries | Stage                                       | Cultural practices/<br>Pest/ Diseases | Agricultural / Horticultural/<br>animal husbandry advisories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------|---------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Khasi<br/>Mandarin</b>          | <b>Vegetative/<br/>Harvesting<br/>stage</b> |                                       | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Apply Bordeaux mixture to the plant after pruning.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| <b>Oil plam</b>                    | <b>Vegetative/<br/>Harvesting<br/>stage</b> |                                       | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Apply Bordeaux mixture to the plant after pruning.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| <b>Banana</b>                      | <b>Vegetative/<br/>harvesting</b>           |                                       | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the</li> </ul>                                                                                                                                                                                                                                                                                                                                                     |



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|                  |                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------|-------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                         |  | <p>weed growth and decreases the number of irrigations and also improves fruit quality.</p> <ul style="list-style-type: none"> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Pruning on a regular basis removes unwanted or suckers, keeps production mats in optimum condition, saves fertilizer, reduces pest and disease.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive yellow colour.</li> </ul>                                                                                                      |
| <b>Pineapple</b> | <b>Vegetative stage</b> |  | <ul style="list-style-type: none"> <li>❖ Colocassia, yam, chilies, cabbage, cauliflower, sweet potato, pigeon pea, green gram, black gram, sesame, etc. intercrop with pine apple which give additional income to farmer.</li> <li>❖ Pineapple plants should be irrigated with five or six irrigations during the dry months at intervals of 20–25 days.</li> <li>❖ Cover crops like sweet potato, etc., can also be grown to conserve soil moisture.</li> <li>❖ Mulching with straw and other plant materials is the technique for soil moisture conservation.</li> </ul> |
| <b>Brinjal</b>   | <b>Transplant stage</b> |  | <ul style="list-style-type: none"> <li>❖ Brinjal is planted in well pulverized and leveled field.</li> <li>❖ Brinjal is normally planted in raised beds of 60 to 75 cm width.</li> <li>❖ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation.</li> </ul>                                                                                                                                                                                                                                                       |





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|                    |                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|--------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                          |  | ❖ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.                                                                                                                                                                                                                                                                                                                             |
| <b>Chilli</b>      | <b>Transplant stage</b>  |  | <ul style="list-style-type: none"> <li>❖ Chilli is planted in well pulverized and leveled field.</li> <li>❖ Chilli is normally planted in raised beds of 60 to 75 cm width.</li> <li>❖ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation.</li> <li>❖ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.</li> </ul> |
| <b>Tomato</b>      | <b>Flowering stage</b>   |  | <ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation in the plant.</li> </ul>                                                                                                                                                                                                                                                                     |
| <b>Pineapple</b>   | <b>Gap filling stage</b> |  | <ul style="list-style-type: none"> <li>❖ Double row planting is done by alternating two rows of crops by a wider mound or path.</li> <li>❖ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy season, they may begin to decay.</li> </ul>                                                                                      |
| <b>French bean</b> | <b>Sowing stage</b>      |  | ❖ Plough the field properly, at least 2-3 times.                                                                                                                                                                                                                                                                                                                                                                                                                |



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|                            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------|----------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                      |          | <ul style="list-style-type: none"> <li>❖ Mix fertilizer with FYM 50:60:60Kg /ha.</li> <li>❖ Sow 2-3 seed per whole.</li> <li>❖ Spacing should be 30 X 20 cm.</li> </ul>                                                                                                                                                                                                                                                        |
| <b>Cowpea</b>              | <b>Sowing stage</b>  | KOLASIB  | <ul style="list-style-type: none"> <li>❖ Plough the field properly, at least 2-3 times.</li> <li>❖ Mix fertilizer with FYM 50:60:60Kg /ha.</li> <li>❖ Sow 2-3 seed per whole.</li> <li>❖ Spacing should be 30 X 20 cm.</li> </ul>                                                                                                                                                                                              |
| <b>Mustard and toria</b>   | <b>Harvest stage</b> | AIZAWL   | <ul style="list-style-type: none"> <li>❖ Siliqua and plants turns green to yellow at physiological maturity stage.</li> <li>❖ Cut the plant from base.</li> <li>❖ Sundry for 3 to 5 days.</li> </ul>                                                                                                                                                                                                                           |
| <b>Pea</b>                 | <b>Harvest stage</b> | SERCHHIP | <ul style="list-style-type: none"> <li>❖ Green pods are harvested for consumption as vegetables</li> <li>❖ For grain or seed purpose, pods are harvested when fully matured</li> <li>❖ Total harvest can be done when pods and plants turns green to yellow.</li> </ul>                                                                                                                                                        |
| <b>Ginger and turmeric</b> | <b>Harvest stage</b> | LUNGLEI  | <ul style="list-style-type: none"> <li>❖ Turmeric and ginger is harvested when leaves start yellowing and ultimately the stem dries down.</li> <li>❖ The plants are-cut close to the ground.</li> <li>❖ The crop is irrigated lightly for easy digging.</li> <li>❖ Harvesting consists of digging of underground clumps of rhizomes with</li> <li>❖ Pick axe or digging fork.</li> <li>❖ Fingers are separated from</li> </ul> |



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|                |                      |                                                          |                                                                                                      |
|----------------|----------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|                |                      |                                                          | mother rhizomes.                                                                                     |
| <b>Pig</b>     | <b>All stages</b>    | <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>Adult stage</b>   | <b>Ranikhet Disease.</b>                                 | • F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.                    |
|                | <b>Early stage</b>   | <b>Coccidiosis</b>                                       | 1. Amprolium or coccidiostat                                                                         |



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**District:** Serchhip

**Period:** 12 - 16 March, 2016

**Bulletin No:** -595/2016/ Bulletin/Mizo

**Date of issue:** 11<sup>th</sup> March, 2016

| Parameters        | 12.03.2016   | 13.03.2016      | 14.03.2016 | 15.03.2016    | 16.03.2016      |
|-------------------|--------------|-----------------|------------|---------------|-----------------|
| Rainfall (mm)     | 0            | 0               | 3          | 3             | 0               |
| Max Temp (oC)     | 31           | 31              | 32         | 32            | 31              |
| Min Temp (oC)     | 15           | 15              | 13         | 13            | 12              |
| Cloud Coverage    | Mainly clear | Partially clear | Clear sky  | Mainly cloudy | Partially clear |
| Max RH (%)        | 70           | 65              | 89         | 90            | 96              |
| Min RH (%)        | 28           | 25              | 24         | 29            | 32              |
| Wind Speed (Kmph) | 4            | 4               | 2          | 2             | 4               |
| *Wind Direction   | S-E          | E               | N-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- February 1-29, 2016 (Percent of deviation from normal in parenthesis)**

|                                      |                                     |                                   |                                     |
|--------------------------------------|-------------------------------------|-----------------------------------|-------------------------------------|
| <b>Aizawl-</b> 00.0mm<br>(11.5mm)    | <b>Champhai-</b> 00.0mm<br>(12.1mm) | <b>Saiha-</b> 00.0 mm<br>(13.9mm) | <b>Kolasib-</b> 00.0mm<br>(14.8mm)  |
| <b>Lawngtlai-</b> 00.0mm<br>(07.1mm) | <b>Lunglei-</b> 5.34mm<br>(08.9mm)  | <b>Mamit-</b> 00.0mm<br>(07.2mm)  | <b>Serchhip-</b> 00.0mm<br>(12.9mm) |

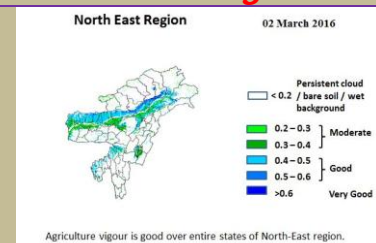
**Ni thum kaltha sik leh sa  
dinhmun tlangpui**

**March 12, 2016 atanga March 16, 2016 sik  
leh sa dinhmun hmuhlawk dan**

Ni 2 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 31-32°C a ni ang a. A vawh lai ber in 12-15°C ni tur ah beisei a ni. RH san lai berin 65-96% leh a hniam lai berin 24-32% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

**Weekly cumulative rainfall: 06.0mm**

**NDVI for Mizoram**



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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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>Harvest stage</b> |                                                  | <ul style="list-style-type: none"> <li>• A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur.</li> <li>• Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur.</li> <li>• Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur.</li> <li>• Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur.</li> <li>• Certified thlai chi chauh hman tur.</li> <li>• Ser kung bula tuitling chu paihfai vek tur.</li> <li>• A tiak inchen tlang chauh phun atan hman tur.</li> <li>• A zar tliak leh hnip chu paihfai zel tur.</li> <li>• Thlai chu hrisel taka enkawl tur.</li> </ul> |
| <b>Oil palm</b>                     | <b>Harvest stage</b> |                                                  | <ul style="list-style-type: none"> <li>• Oil palm kung bul chu tihfai a a zar thlak bawk tur.</li> <li>• Leitha chu thlai pakhatah 600:200:100g a pek tur.</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> <li>• Oil palm rah chu a puitlin</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                 |





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|             |                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------|----------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                      |  | <p>hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.</p> <ul style="list-style-type: none"> <li>Balhla kung bul chu tihfai a a zar thlak bawk tur.</li> <li>Leitha chu thlai pakhatat 600:200:100g a pek tur.</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> <li>A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani.</li> <li>A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.</li> </ul> |
| Balhla      | Flower/Harvest stage |  | <ul style="list-style-type: none"> <li>A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.</li> <li>A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur.</li> <li>Polythene bag atangin thla <math>\frac{3}{4}</math> hnu ah huan ah phun sawn leh tur.</li> <li>Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.</li> </ul>                                                                                                                                                                                                                           |
| Sapthei     | Transplant stage     |  | <ul style="list-style-type: none"> <li>A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur.</li> <li>Chemical pek atangin ni 55-60 chhungin a par a chhuah</li> </ul>                                                                                                                                                                                                                                                                                                                                                                   |
| Lakhuihthei | A par lai            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |



# 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)



|                             |                   |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------|-------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             |                   |                                                                                              | thei ang.<br><ul style="list-style-type: none"> <li>Leitha chu thlai pakhat ah 60:50:60g a pek tur.</li> <li>Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.</li> </ul>                                                                                                                                                                            |
|                             |                   | <b>Corm borer</b>                                                                            | <ul style="list-style-type: none"> <li>Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur</li> </ul>                                                                                                                                                                                                                |
| <b>Cucurbitaceous crops</b> | <b>A rah lai</b>  | MAMIT<br>AIZAWL<br>CHAMPAI                                                                   | <ul style="list-style-type: none"> <li>Ni 7 danah tui chu tha taka pek tur.</li> <li>Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur.</li> <li>Thlai pakhatah a par nasat lain urea chu 70g a pek tur.</li> </ul> |
| <b>Bawrsaiabe</b>           | <b>A chin dan</b> | SERCHHIP<br>1. Nursery tihfai a tui tlem pek tur.<br>2. Phunsawn hnuah tui tha taka pek tur. | <ul style="list-style-type: none"> <li>A kung bulthut ah hnim chheh darh tur.</li> <li>A khat tawkin tui pek tur.</li> <li>A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.</li> </ul>                                                                                                                                                                          |
|                             |                   | 1. Aphids                                                                                    | <ul style="list-style-type: none"> <li>Surf tuiin thlai chu kah tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur</li> </ul>                                                                                                                                                    |
|                             |                   | 2. Flea beetle                                                                               | <ul style="list-style-type: none"> <li>Pangang tui leh a puitling te chu a kung atangin thin thlak tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml</li> </ul>                                                                                                                           |



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|  |  |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--|--|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |                                  | a kah tur.                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|  |  | <b>3. Epilachna beetle</b>       | <ul style="list-style-type: none"> <li>• A hnah a pangang leh a tui awm chu paihfai tur.</li> <li>• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.</li> </ul>                                                                                                                                                                                                                                                                        |
|  |  | <b>4. Leaf hopper</b>            | <ul style="list-style-type: none"> <li>• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>                                                                                                                                                                                                                                                             |
|  |  | <b>Bacterial wilt</b>            | <ul style="list-style-type: none"> <li>• Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur.</li> <li>• Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur. bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei.</li> <li>• Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.</li> </ul> |
|  |  | <b>Damping off</b>               | <ul style="list-style-type: none"> <li>• Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride 4g+Metalaxyl 4g (Apron) a chiah tur.</li> <li>• Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.</li> </ul>                                                                                                                                                 |
|  |  | <b>Leaf spot and leaf blotch</b> | <ul style="list-style-type: none"> <li>• Dithane M-45 chu tui litre khatah 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur.</li> <li>• Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.</li> </ul>                                                                                                                                                                                         |



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|                    |                   |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------|-------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                   | <b>Leaf spot leh leaf blotch</b> | <ul style="list-style-type: none"> <li>Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah wawi 2/3 kah thin tur.</li> <li>Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.</li> </ul>                                                                                                                                                                                  |
| <b>French bean</b> | <b>A par lai</b>  | <b>Blister beetle</b>            | <ul style="list-style-type: none"> <li>Bean hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>Lei chu boruak kal that nan laihphut thin tur.</li> <li>A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.</li> </ul>                                                                                                                                                                                      |
| <b>Bawkbawn</b>    | <b>A chin dan</b> | <b>Aphids</b>                    | <ul style="list-style-type: none"> <li>Rannung ho chu mankhawmin thah vek tur.</li> <li>Cypermethrin 2g chu tui litre khata pawlhin kah thin tur</li> <li>Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur.</li> <li>A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</li> </ul> |
| <b>Tomato</b>      | <b>A chin dan</b> |                                  | <ul style="list-style-type: none"> <li>Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</li> <li>Leitha 10kg leh bawnggek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</li> <li>Surf tuiin thlai chu kah tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>                |



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|                            |                         |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------|-------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                         | <b>Epilachna beetle</b>  | <ul style="list-style-type: none"> <li>Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Buh</b>                 | <b>Nursery stage</b>    | <b>Pre kharif rice</b>   | <ul style="list-style-type: none"> <li>A chi tha leh khat tha chauh hman tur.</li> <li>Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</li> <li>Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</li> </ul>                                                                                                                                                                                                                                                          |
|                            |                         | <b>Raised bed method</b> | <ul style="list-style-type: none"> <li>A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng.</li> <li>Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</li> </ul>                                                                                                                                                                                                                                                       |
| <b>Vaimim</b>              | <b>A chin dan</b>       |                          | <ul style="list-style-type: none"> <li>Lei chu vawi 2/3 laihphut phawt tur.</li> <li>A chi chu a line indawt a chin tur</li> <li>A chi chu kg khatah Thiram 4g a chiah tur.</li> <li>Hectare khatah buh chi chu 20-25kg hman tur.</li> <li>Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.</li> </ul> |
| <b>Sawhthing leh Aieng</b> | <b>Land preparation</b> |                          | <ul style="list-style-type: none"> <li>Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>Lei chu boruak kal that nan laihphut thin tur.</li> </ul>                                                                                                                                                                                                                                                                                                                                               |



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|       |                |                                                   |                                                                                                                                                                                                                          |
|-------|----------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |                |                                                   | <ul style="list-style-type: none"> <li>Nitrogen leitha chu an mamawh taw kanga pek tur.</li> <li>Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.</li> </ul>                                         |
|       |                | Thrips                                            |                                                                                                                                                                                                                          |
|       |                | Scales                                            | <ul style="list-style-type: none"> <li>Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.</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) <ul style="list-style-type: none"> <li>Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>Kumkhat hnu ah vaccine pek leh tur.</li> </ul> </li> </ul> |
| Ar    | Kumtluanin     | Ranikhet Disease.                                 | 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.                                                                                                       |
|       |                | Coccidiosis                                       | 2. Amprolium emaw coccidiostat pek tur.                                                                                                                                                                                  |





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**District:** Aizawl

**Period:** 12 - 16 March, 2016

**Bulletin No:** -595/2016/ Bulletin/Mizo

**Date of issue:** 11<sup>th</sup> March, 2016

| Parameters        | 12.03.2016   | 13.03.2016 | 14.03.2016 | 15.03.2016      | 16.03.2016      |
|-------------------|--------------|------------|------------|-----------------|-----------------|
| Rainfall (mm)     | 0            | 1          | 1          | 0               | 0               |
| Max Temp (oC)     | 30           | 30         | 31         | 31              | 29              |
| Min Temp (oC)     | 16           | 16         | 17         | 16              | 17              |
| Cloud Coverage    | Mainly clear | Clear sky  | Clear sky  | Partially clear | Partially clear |
| Max RH (%)        | 72           | 69         | 83         | 90              | 98              |
| Min RH (%)        | 26           | 23         | 24         | 32              | 39              |
| Wind Speed (Kmph) | 5            | 5          | 2          | 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- February 1-29, 2016 (Percent of deviation from normal in parenthesis)**

|                                     |                                     |                                   |                                    |
|-------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| <b>Aizawl- 00.0mm</b><br>(11.5mm)   | <b>Champhai- 00.0mm</b><br>(12.1mm) | <b>Saiha- 00.0 mm</b><br>(13.9mm) | <b>Kolasib- 00.0mm</b><br>(14.8mm) |
| <b>Lawngtlai-00.0mm</b><br>(07.1mm) | <b>Lunglei-5.34mm</b><br>(08.9mm)   | <b>Mamit-00.0mm</b><br>(07.2mm)   | <b>Serchhip-00.0mm</b><br>(12.9mm) |

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

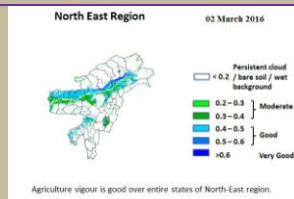
**March 12, 2016 atanga March 16, 2016 sik leh sa dinhmun hmuhlawk dan**

Khua a lum lai berin 26.5-28.1°C leh a vawh lai berin 14.3-18.5°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 75-88% leh a hniam lai 41-59% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **000.00mm** ani. (Source- **Mosdac.gov.in**)

Ni 2 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-31°C a ni ang a. A vawh lai ber in 16-17°C ni tur ah beisei a ni. RH san lai berin 69-98% leh a hniam lai berin 23-39% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-5 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

**Weekly cumulative rainfall: 02.0mm**

**NDVI for Mizoram**



NDVI of soil moisture for Mizoram is moderate wet condition.



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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>Harvest stage</b> |                                                  | <ul style="list-style-type: none"> <li>• A chi: A chi chu lakchhuah anih vele nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur.</li> <li>• Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur.</li> <li>• Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur.</li> <li>• Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur.</li> <li>• Certified thlai chi chauh hman tur.</li> <li>• Ser kung bula tuitling chu paihfai vek tur.</li> <li>• A tiak inchen tlang chauh phun atan hman tur.</li> <li>• A zar tliak leh hnip chu paih fai zel tur.</li> <li>• Thlai chu hrisel taka enkawl tur.</li> </ul> |
| <b>Oil palm</b>                     | <b>Harvest stage</b> |                                                  | <ul style="list-style-type: none"> <li>• Oil palm kung bul chu tihfai a a zar thlak bawk tur.</li> <li>• Leitha chu thlai pakhat ah 600:200:100g a pek tur.</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> <li>• Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.</li> </ul>                                                                                                                                                                                                                                                                                                 |



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|             |                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------|----------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Balhla      | Flower/Harvest stage |  | <ul style="list-style-type: none"> <li>Balhla kung bul chu tihfai a a zar thlak bawk tur.</li> <li>Leitha chu thlai pakhatah 600:200:100g a pek tur.</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> <li>A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani.</li> <li>A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.</li> </ul> |
| Sapthei     | Transplant stage     |  | <ul style="list-style-type: none"> <li>A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.</li> <li>A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur.</li> <li>Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur.</li> <li>Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.</li> </ul>                                                                                                                                                            |
| Lakhuihthei | A par lai            |  | <ul style="list-style-type: none"> <li>A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur.</li> <li>Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang.</li> <li>Leitha chu thlai pakhat ah 60:50:60g a pek tur.</li> <li>Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.</li> </ul>                                                                                                                             |
|             |                      |  | <ul style="list-style-type: none"> <li>Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                           |

Corm borer



# 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)



|                             |                   |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------|-------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             |                   |                                                                                  | a zung ah a tuina hnuhma a awmin pek tur                                                                                                                                                                                                                                                                                                                                 |
| <b>Cucurbitaceous crops</b> | <b>A rah lai</b>  | KOLASIB                                                                          | <ul style="list-style-type: none"> <li>Ni 7 danah tui chu tha taka pek tur.</li> <li>Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur.</li> <li>Thlai pakhatatah a par nasat lain urea chu 70g a pek tur.</li> </ul> |
| <b>Bawrhsaiabe</b>          | <b>A chin dan</b> | 1. Nursery tihfai a tui tlem pek tur.<br>2. Phunsawn hnuah tui tha taka pek tur. | <ul style="list-style-type: none"> <li>A kung bulthut ah hnim chheh darh tur.</li> <li>A khat tawkin tui pek tur.</li> <li>A tiak phunsawn te chu nil eh ruah lakah hliahkhuah tur.</li> </ul>                                                                                                                                                                           |
|                             |                   | 1. Aphids                                                                        | <ul style="list-style-type: none"> <li>Surf tuiin thlai chu kah tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur</li> </ul>                                                                                                                                                      |
|                             |                   | 2. Flea beetle                                                                   | <ul style="list-style-type: none"> <li>Pangang tui leh a puitling te chu a kung atangin thin thlak tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>                                                                                                                  |
|                             |                   | 3. Epilachna beetle                                                              | <ul style="list-style-type: none"> <li>A hnah a pangang leh a tui awm chu paihfai tur.</li> <li>Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.</li> </ul>                                                                                                                                                                                                         |
|                             |                   | 4. Leaf hopper                                                                   | <ul style="list-style-type: none"> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>                                                                                                                                                                                            |
|                             |                   | Bacterial wilt                                                                   | <ul style="list-style-type: none"> <li>Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur.</li> </ul>                                                                                                                                                                                                                                                          |



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|                    |                  |                            |                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------|------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                  | KOLASIB                    | <ul style="list-style-type: none"> <li>• Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei.</li> <li>• Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.</li> </ul> |
|                    |                  | MAMIT<br>AIZAWL<br>CHAMPAI | <p><b>Damping off</b></p> <ul style="list-style-type: none"> <li>• Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur.</li> <li>• Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.</li> </ul>                                              |
|                    |                  | SERCHHIP                   | <p><b>Leaf spot and leaf blotch</b></p> <ul style="list-style-type: none"> <li>• Dithane M-45 chu tui litre khatah 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur.</li> <li>• Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.</li> </ul>                                                                       |
|                    |                  | LUNGLEI                    | <p><b>Leaf spot leh leaf blotch</b></p> <ul style="list-style-type: none"> <li>• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur.</li> <li>• Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.</li> </ul>                                                                         |
| <b>French bean</b> | <b>A par lai</b> | LAWNGTLAI                  | <ul style="list-style-type: none"> <li>• Bean hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>• Lei chu boruak kal that nan laihphut thin tur.</li> <li>• A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.</li> </ul>                                                                                                                   |
|                    |                  | HA                         | <p><b>Blister beetle</b></p> <ul style="list-style-type: none"> <li>• Rannung ho chu mankhawmin thah vek tur.</li> <li>• Cypermethrin 2g chu tui litre</li> </ul>                                                                                                                                                                                                 |





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|          |               |                   |                                                                                                                                                                                                                                                                                                             |
|----------|---------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |               |                   | khata pawlhin kah thin tur                                                                                                                                                                                                                                                                                  |
| Bawkbawn | A chin dan    | KOLASIB           | <ul style="list-style-type: none"> <li>Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur.</li> <li>A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</li> </ul> |
| Tomato   | A chin dan    | MAMIT             | <ul style="list-style-type: none"> <li>Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</li> <li>Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</li> </ul>                                                                         |
|          |               | Aphids            | <ul style="list-style-type: none"> <li>Surf tuiin thlai chu kah tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>                                                                                        |
|          |               | Epilachna beetle  | <ul style="list-style-type: none"> <li>Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei</li> </ul>                                                                                                                                                                               |
| Buh      | Nursery stage | Pre kharif rice   | <ul style="list-style-type: none"> <li>A chi tha leh khat tha chauh hman tur.</li> <li>Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</li> <li>Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</li> </ul>                                                       |
|          |               | Raised bed method | <ul style="list-style-type: none"> <li>A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng.</li> <li>Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</li> </ul>                                                    |
| Vaimim   | A chin dan    |                   | <ul style="list-style-type: none"> <li>Lei chu vawi 2/3 laihphut phawt tur.</li> <li>A chi chu a line indawt a chin tur</li> <li>A chi chu kg khatah Thiram 4g a</li> </ul>                                                                                                                                 |



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|                     |                  |                                                   |                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |                  | KOLASIB                                           | <p>chiah tur.</p> <ul style="list-style-type: none"> <li>Hectare khatah buh chi chu 20-25kg hman tur.</li> <li>Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.</li> </ul> |
| Sawhthing leh Aieng | Land preparation | MAMIT<br>AIZAWL                                   | <ul style="list-style-type: none"> <li>Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>Lei chu boruak kal that nan laihphut thin tur.</li> <li>Nitrogen leitha chu an mamawh taw kanga pek tur.</li> </ul>                                                                                                                                                        |
|                     |                  | Thrips                                            | <ul style="list-style-type: none"> <li>Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhinh kah tur.</li> </ul>                                                                                                                                                                                                                                                           |
|                     |                  | Scales SERCHHIP                                   | <ul style="list-style-type: none"> <li>Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhinh kah tur.</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 chhonzawm 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 chhonzawm tur a ni.</li> </ul>                                                                                                                                                                                                                                          |
|                     | A naupan lai     | Black Quarter (BQ)                                | <ul style="list-style-type: none"> <li>Black Quarter Vaccine (BQ) <ul style="list-style-type: none"> <li>Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>Kumkhat hnu ah vaccine pek leh tur.</li> </ul> </li> </ul>                                                                                                                                                          |
| Ar                  | Kumtluanin       | Ranikhet Disease.                                 | 1. Ar note an pian hlimin F <sub>1</sub> vaccine                                                                                                                                                                                                                                                                                                                                  |



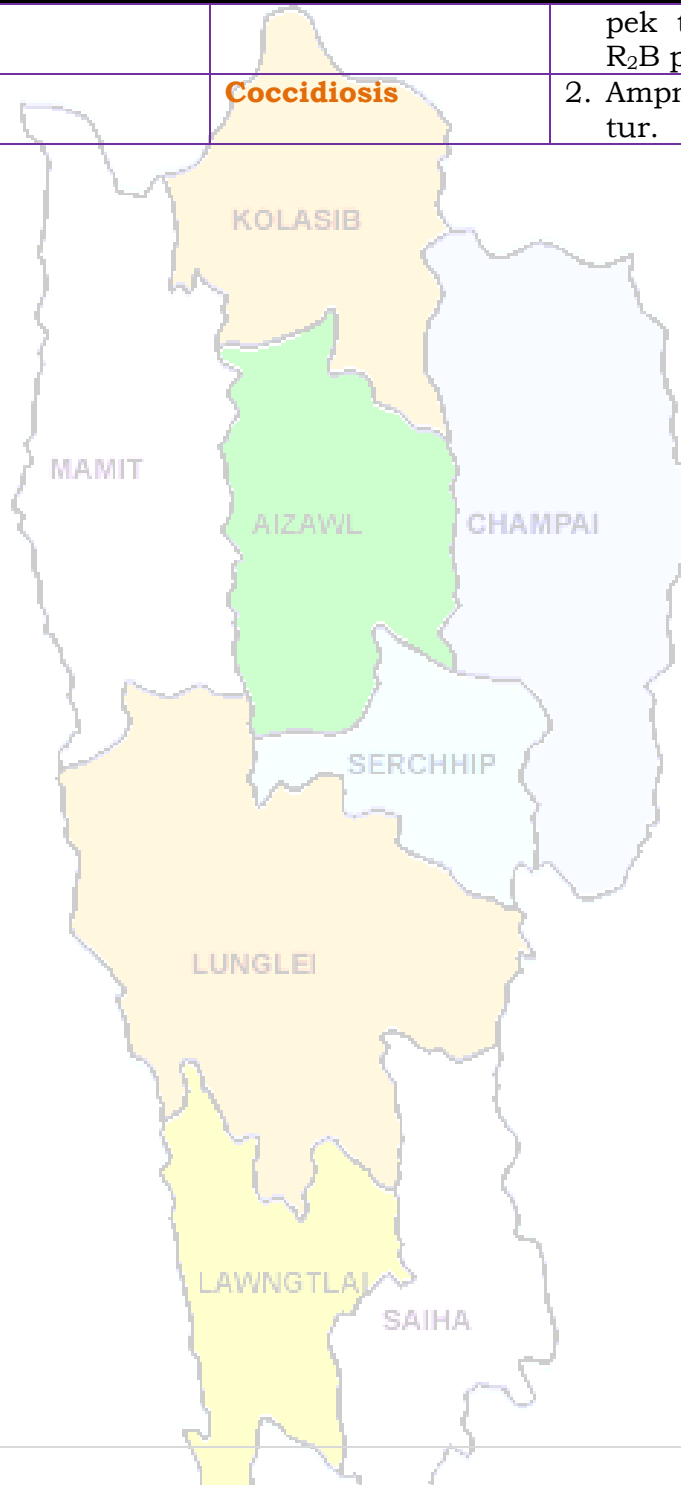
# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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|  |  |                    |                                                                   |
|--|--|--------------------|-------------------------------------------------------------------|
|  |  |                    | 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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**District:** Aizawl

**Period:** 12 - 16 March, 2016

**Bulletin No:** -595/2016/ Bulletin/English

**Date of issue:** 11<sup>th</sup> March, 2016

| Parameters               | 12.03.2016   | 13.03.2016 | 14.03.2016 | 15.03.2016      | 16.03.2016      |
|--------------------------|--------------|------------|------------|-----------------|-----------------|
| <b>Rainfall (mm)</b>     | 0            | 1          | 1          | 0               | 0               |
| <b>Max Temp (°C)</b>     | 30           | 30         | 31         | 31              | 29              |
| <b>Min Temp (°C)</b>     | 16           | 16         | 17         | 16              | 17              |
| <b>Cloud Coverage</b>    | Mainly clear | Clear sky  | Clear sky  | Partially clear | Partially clear |
| <b>Max RH (%)</b>        | 72           | 69         | 83         | 90              | 98              |
| <b>Min RH (%)</b>        | 26           | 23         | 24         | 32              | 39              |
| <b>Wind Speed (Kmph)</b> | 5            | 5          | 2          | 2               | 3               |
| <b>*Wind Direction</b>   | 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- February 1-29, 2016 (Percent of deviation from normal in parenthesis)**

|                                     |                                     |                                   |                                    |
|-------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| <b>Aizawl- 00.0mm</b><br>(11.5mm)   | <b>Champhai- 00.0mm</b><br>(12.1mm) | <b>Saiha- 00.0 mm</b><br>(13.9mm) | <b>Kolasib- 00.0mm</b><br>(14.8mm) |
| <b>Lawngtlai-00.0mm</b><br>(07.1mm) | <b>Lunglei-5.34mm</b><br>(08.9mm)   | <b>Mamit-00.0mm</b><br>(07.2mm)   | <b>Serchhip-00.0mm</b><br>(12.9mm) |

**Weather summary of the past three days**

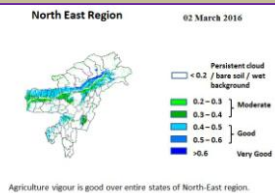
The temperature range for maximum and minimum were 26.5-28.1°C and 14.3-18.5°C respectively. Clear sky was observed. Wind direction is southeasterly. Maximum RH observed 75-88% & minimum of 41-59%. Rainfall recorded for the past three days is **000.00mm.** (Source- [mosdac.gov.in](http://mosdac.gov.in))

**Weather forecast valid from 12<sup>th</sup> March, 2016 To 16<sup>th</sup> March, 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 29-31°C and 16-17°C. Maximum relative humidity is expected in the range of 69-98% and minimum may from 23-39%. Wind direction would be southeasterly with the wind speed of 2-5 km per hour. Partially cloudy sky will prevail during the next five days.

**Weekly cumulative rainfall: 02.0 mm**

**NDVI for Mizoram**



NDVI of soil moisture for Mizoram is moderate wet condition.



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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</b>           | <b>Vegetative/<br/>Harvesting<br/>stage</b> | KOLASIB<br>MAMIT<br>AIZAWL               | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Apply Bordeaux mixture to the plant after pruning.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| <b>Oil plam</b>                     | <b>Vegetative/<br/>Harvesting<br/>stage</b> | SERCHHIP<br>LUNGLEI                      | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Apply Bordeaux mixture to the plant after pruning.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| <b>Banana</b>                       | <b>Vegetative/<br/>harvesting</b>           | LAWNGTLAI<br>SAIHA                       | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Pruning on a regular basis removes unwanted</li> </ul>                                                                                                                                 |





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|                  |                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------|-------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                         |  | <p>or suckers, keeps production mats in optimum condition, saves fertilizer, reduces pest and disease.</p> <ul style="list-style-type: none"> <li>❖ Fruits are harvested when they attain full size, develop attractive yellow colour.</li> </ul>                                                                                                                                                                                                                                                                                                                          |
| <b>Pineapple</b> | <b>Vegetative stage</b> |  | <ul style="list-style-type: none"> <li>❖ Colocassia, yam, chilies, cabbage, cauliflower, sweet potato, pigeon pea, green gram, black gram, sesame, etc. intercrop with pine apple which give additional income to farmer.</li> <li>❖ Pineapple plants should be irrigated with five or six irrigations during the dry months at intervals of 20–25 days.</li> <li>❖ Cover crops like sweet potato, etc., can also be grown to conserve soil moisture.</li> <li>❖ Mulching with straw and other plant materials is the technique for soil moisture conservation.</li> </ul> |
| <b>Brinjal</b>   | <b>Transplant stage</b> |  | <ul style="list-style-type: none"> <li>❖ Brinjal is planted in well pulverized and leveled field.</li> <li>❖ Brinjal is normally planted in raised beds of 60 to 75 cm width.</li> <li>❖ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation.</li> <li>❖ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.</li> </ul>                                                                                                          |
| <b>Chilli</b>    | <b>Transplant stage</b> |  | <ul style="list-style-type: none"> <li>❖ Chilli is planted in well pulverized and leveled field.</li> <li>❖ Chilli is normally planted in raised beds of 60 to 75 cm width.</li> <li>❖ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation.</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)



|                          |                          |                 |                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|--------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                          |                 | ❖ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.                                                                                                                                                                                                                                        |
| <b>Tomato</b>            | <b>Flowering stage</b>   | KOLASIB         | <ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation in the plant.</li> </ul>                                                                                                                                                                                |
| <b>Pineapple</b>         | <b>Gap filling stage</b> | MAMIT<br>AIZAWL | <ul style="list-style-type: none"> <li>❖ Double row planting is done by alternating two rows of crops by a wider mound or path.</li> <li>❖ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy season, they may begin to decay.</li> </ul> |
| <b>French bean</b>       | <b>Sowing stage</b>      | SERCHHIP        | <ul style="list-style-type: none"> <li>❖ Plough the field properly, at least 2-3 times.</li> <li>❖ Mix fertilizer with FYM 50:60:60Kg/ha.</li> <li>❖ Sow 2-3 seed per whole.</li> <li>❖ Spacing should be 30 X 20 cm.</li> </ul>                                                                                                                                           |
| <b>Cowpea</b>            | <b>Sowing stage</b>      | LUNGLEI         | <ul style="list-style-type: none"> <li>❖ Plough the field properly, at least 2-3 times.</li> <li>❖ Mix fertilizer with FYM 50:60:60Kg/ha.</li> <li>❖ Sow 2-3 seed per whole.</li> <li>❖ Spacing should be 30 X 20 cm.</li> </ul>                                                                                                                                           |
| <b>Mustard and toria</b> | <b>Harvest stage</b>     | LAWNGTLAI       | <ul style="list-style-type: none"> <li>❖ Siliqua and plants turns green to yellow at physiological maturity stage.</li> <li>❖ Cut the plant from base.</li> <li>❖ Sundry for 3 to 5 days.</li> </ul>                                                                                                                                                                       |
| <b>Pea</b>               | <b>Harvest stage</b>     | SAIHA           | <ul style="list-style-type: none"> <li>❖ Green pods are harvested for consumption as vegetables</li> <li>❖ For grain or seed purpose, pods are</li> </ul>                                                                                                                                                                                                                  |



# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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|                            |                      |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|----------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                      |                                                          | <p>harvested when fully matured</p> <ul style="list-style-type: none"> <li>❖ Total harvest can be done when pods and plants turns green to yellow.</li> </ul>                                                                                                                                                                                                                                                                                   |
| <b>Ginger and turmeric</b> | <b>Harvest stage</b> |                                                          | <ul style="list-style-type: none"> <li>❖ Turmeric and ginger is harvested when leaves start yellowing and ultimately the stem dries down.</li> <li>❖ The plants are-cut close to the ground.</li> <li>❖ The crop is irrigated lightly for easy digging.</li> <li>❖ Harvesting consists of digging of underground clumps of rhizomes with</li> <li>❖ Pick axe or digging fork.</li> <li>❖ Fingers are separated from mother rhizomes.</li> </ul> |
| <b>Pig</b>                 | <b>All stages</b>    | <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>Adult stage</b>   | <b>Ranikhet Disease.</b>                                 | <ul style="list-style-type: none"> <li>• F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> </ul>                                                                                                                                                                                                                                                                                                               |
|                            | <b>Early stage</b>   | <b>Coccidiosis</b>                                       | 1. Amprolium or coccidiostat                                                                                                                                                                                                                                                                                                                                                                                                                    |



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Mizoram Centre, Kolasib- 796081, MIZORAM

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Guwahati)



## Expert committee members:

|                                |   |                                               |                                                                                          |
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## Collaborating Department:

|                                 |   |                   |                                                                                                                                                |
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| <b>Mr. Vanlalhruaia Hnamte</b>  | : | PC KVK, Mamit     | <a href="mailto:kvkmamit@yahoo.in">kvkmamit@yahoo.in</a>                                                                                       |
| <b>Dr. K. P. Chaudhary</b>      | : | PC KVK, Aizawl    | <a href="mailto:Kpchy@rediffmail.com">Kpchy@rediffmail.com</a><br><a href="mailto:kvkaizawl@rediffmail.com">kvkaizawl@rediffmail.com</a>       |



# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Champhai

**Period:** 12 - 16 March, 2016

**Bulletin No:** -595/2016/ Bulletin/English

**Date of issue:** 11<sup>th</sup> March, 2016

| Parameters               | 12.03.2016 | 13.03.2016   | 14.03.2016 | 15.03.2016      | 16.03.2016      |
|--------------------------|------------|--------------|------------|-----------------|-----------------|
| <b>Rainfall (mm)</b>     | 0          | 0            | 3          | 2               | 0               |
| <b>Max Temp (°C)</b>     | 30         | 32           | 33         | 31              | 30              |
| <b>Min Temp (°C)</b>     | 16         | 17           | 15         | 13              | 13              |
| <b>Cloud Coverage</b>    | Clear sky  | Mainly clear | Clear sky  | Partially clear | Partially clear |
| <b>Max RH (%)</b>        | 0          | 63           | 80         | 84              | 89              |
| <b>Min RH (%)</b>        | 0          | 23           | 22         | 29              | 35              |
| <b>Wind Speed (Kmph)</b> | 0          | 4            | 4          | 3               | 4               |
| <b>*Wind Direction</b>   | 0          | S-E          | S          | S               | S               |

**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- February 1-29, 2016 (Percent of deviation from normal in parenthesis)**

|                                     |                                     |                                   |                                    |
|-------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| <b>Aizawl- 00.0mm</b><br>(11.5mm)   | <b>Champhai- 00.0mm</b><br>(12.1mm) | <b>Saiha- 00.0 mm</b><br>(13.9mm) | <b>Kolasib- 00.0mm</b><br>(14.8mm) |
| <b>Lawngtlai-00.0mm</b><br>(07.1mm) | <b>Lunglei-5.34mm</b><br>(08.9mm)   | <b>Mamit-00.0mm</b><br>(07.2mm)   | <b>Serchhip-00.0mm</b><br>(12.9mm) |

**Weather summary of the past three days**

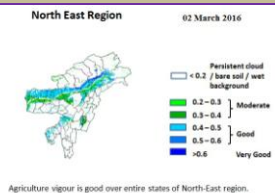
The temperature range for maximum and minimum were 25.0-27.5°C and 11.6-13.2°C respectively. Clear sky was observed. Wind direction is southeasterly. Maximum RH observed 63-86% & minimum of 39-58%. Rainfall recorded for the past three days is **000.00mm.** (Source- [mosdac.gov.in](http://mosdac.gov.in))

**Weather forecast valid from 12<sup>th</sup> March, 2016 To 16<sup>th</sup> March, 2016.**

There are chances of light rainfall during the next 2 day. The maximum and minimum temperatures for the next 5 days may range for 30-33°C and 13-17°C. Maximum relative humidity is expected in the range of 63-89% and minimum may from 22-35%. Wind direction would be southeasterly to southerly with the wind speed of 3-4 km per hour. Partially cloudy sky will prevail during the next five days.

**Weekly cumulative rainfall: 05.0 mm**

**NDVI for Mizoram**



NDVI of soil moisture for Mizoram is moderate wet condition.





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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</b>           | <b>Vegetative/<br/>Harvesting<br/>stage</b> | KOLASIB<br>MAMIT<br>AIZAWL               | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Apply Bordeaux mixture to the plant after pruning.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| <b>Oil plam</b>                     | <b>Vegetative/<br/>Harvesting<br/>stage</b> | SERCHHIP<br>LUNGLEI                      | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Apply Bordeaux mixture to the plant after pruning.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| <b>Banana</b>                       | <b>Vegetative/<br/>harvesting</b>           | LAWNGTLAI<br>SAIHA                       | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Pruning on a regular basis removes unwanted</li> </ul>                                                                                                                                 |





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|                  |                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------|-------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                         |  | <p>or suckers, keeps production mats in optimum condition, saves fertilizer, reduces pest and disease.</p> <ul style="list-style-type: none"> <li>❖ Fruits are harvested when they attain full size, develop attractive yellow colour.</li> </ul>                                                                                                                                                                                                                                                                                                                          |
| <b>Pineapple</b> | <b>Vegetative stage</b> |  | <ul style="list-style-type: none"> <li>❖ Colocassia, yam, chilies, cabbage, cauliflower, sweet potato, pigeon pea, green gram, black gram, sesame, etc. intercrop with pine apple which give additional income to farmer.</li> <li>❖ Pineapple plants should be irrigated with five or six irrigations during the dry months at intervals of 20–25 days.</li> <li>❖ Cover crops like sweet potato, etc., can also be grown to conserve soil moisture.</li> <li>❖ Mulching with straw and other plant materials is the technique for soil moisture conservation.</li> </ul> |
| <b>Brinjal</b>   | <b>Transplant stage</b> |  | <ul style="list-style-type: none"> <li>❖ Brinjal is planted in well pulverized and leveled field.</li> <li>❖ Brinjal is normally planted in raised beds of 60 to 75 cm width.</li> <li>❖ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation.</li> <li>❖ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.</li> </ul>                                                                                                          |
| <b>Chilli</b>    | <b>Transplant stage</b> |  | <ul style="list-style-type: none"> <li>❖ Chilli is planted in well pulverized and leveled field.</li> <li>❖ Chilli is normally planted in raised beds of 60 to 75 cm width.</li> <li>❖ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation.</li> </ul>                                                                                                                                                                                                                                                         |



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|                          |                          |                 |                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|--------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                          |                 | <ul style="list-style-type: none"> <li>❖ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.</li> </ul>                                                                                                                                                                                      |
| <b>Tomato</b>            | <b>Flowering stage</b>   | KOLASIB         | <ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation in the plant.</li> </ul>                                                                                                                                                                                |
| <b>Pineapple</b>         | <b>Gap filling stage</b> | MAMIT<br>AIZAWL | <ul style="list-style-type: none"> <li>❖ Double row planting is done by alternating two rows of crops by a wider mound or path.</li> <li>❖ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy season, they may begin to decay.</li> </ul> |
| <b>French bean</b>       | <b>Sowing stage</b>      | SERCHHIP        | <ul style="list-style-type: none"> <li>❖ Plough the field properly, at least 2-3 times.</li> <li>❖ Mix fertilizer with FYM 50:60:60Kg/ha.</li> <li>❖ Sow 2-3 seed per whole.</li> <li>❖ Spacing should be 30 X 20 cm.</li> </ul>                                                                                                                                           |
| <b>Cowpea</b>            | <b>Sowing stage</b>      | LUNGLEI         | <ul style="list-style-type: none"> <li>❖ Plough the field properly, at least 2-3 times.</li> <li>❖ Mix fertilizer with FYM 50:60:60Kg/ha.</li> <li>❖ Sow 2-3 seed per whole.</li> <li>❖ Spacing should be 30 X 20 cm.</li> </ul>                                                                                                                                           |
| <b>Mustard and toria</b> | <b>Harvest stage</b>     | LAWNGTLAI       | <ul style="list-style-type: none"> <li>❖ Siliqua and plants turns green to yellow at physiological maturity stage.</li> <li>❖ Cut the plant from base.</li> <li>❖ Sundry for 3 to 5 days.</li> </ul>                                                                                                                                                                       |
| <b>Pea</b>               | <b>Harvest stage</b>     | SAIHA           | <ul style="list-style-type: none"> <li>❖ Green pods are harvested for consumption as vegetables</li> <li>❖ For grain or seed purpose, pods are</li> </ul>                                                                                                                                                                                                                  |



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|                            |                      |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|----------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                      |                                                          | <p>harvested when fully matured</p> <ul style="list-style-type: none"> <li>❖ Total harvest can be done when pods and plants turns green to yellow.</li> </ul>                                                                                                                                                                                                                                                                                   |
| <b>Ginger and turmeric</b> | <b>Harvest stage</b> |                                                          | <ul style="list-style-type: none"> <li>❖ Turmeric and ginger is harvested when leaves start yellowing and ultimately the stem dries down.</li> <li>❖ The plants are-cut close to the ground.</li> <li>❖ The crop is irrigated lightly for easy digging.</li> <li>❖ Harvesting consists of digging of underground clumps of rhizomes with</li> <li>❖ Pick axe or digging fork.</li> <li>❖ Fingers are separated from mother rhizomes.</li> </ul> |
| <b>Pig</b>                 | <b>All stages</b>    | <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>Adult stage</b>   | <b>Ranikhet Disease.</b>                                 | <ul style="list-style-type: none"> <li>• F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> </ul>                                                                                                                                                                                                                                                                                                               |
|                            | <b>Early stage</b>   | <b>Coccidiosis</b>                                       | 1. Amprolium or coccidiostat                                                                                                                                                                                                                                                                                                                                                                                                                    |



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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:** Champhai

**Period:** 12 - 16 March, 2016

**Bulletin No:** -595/2016/ Bulletin/Mizo

**Date of issue:** 11<sup>th</sup> March, 2016

| Parameters        | 12.03.2016 | 13.03.2016 | 14.03.2016 | 15.03.2016   | 16.03.2016      |
|-------------------|------------|------------|------------|--------------|-----------------|
| Rainfall (mm)     | 0          | 0          | 0          | 0            | 0               |
| Max Temp (oC)     | 31         | 31         | 31         | 31           | 32              |
| Min Temp (oC)     | 16         | 17         | 17         | 16           | 17              |
| Cloud Coverage    | Clear sky  | Clear sky  | Clear sky  | Mainly clear | Partially clear |
| Max RH (%)        | 62         | 65         | 63         | 65           | 57              |
| Min RH (%)        | 24         | 26         | 24         | 21           | 17              |
| Wind Speed (Kmph) | 5          | 4          | 4          | 4            | 4               |
| *Wind Direction   | S          | S-E        | S          | S            | S               |

**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- February 1-29, 2016 (Percent of deviation from normal in parenthesis)**

|                                     |                                     |                                   |                                    |
|-------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| <b>Aizawl- 00.0mm</b><br>(11.5mm)   | <b>Champhai- 00.0mm</b><br>(12.1mm) | <b>Saiha- 00.0 mm</b><br>(13.9mm) | <b>Kolasib- 00.0mm</b><br>(14.8mm) |
| <b>Lawngtlai-00.0mm</b><br>(07.1mm) | <b>Lunglei-5.34mm</b><br>(08.9mm)   | <b>Mamit-00.0mm</b><br>(07.2mm)   | <b>Serchhip-00.0mm</b><br>(12.9mm) |

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

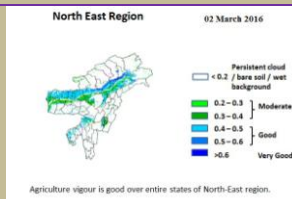
**March 12, 2016 atanga March 16, 2016 sik leh sa dinhmun hmuhlawk dan**

Khua a lum lai berin 25.0-27.5°C leh a vawh lai berin 11.6-13.2°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 63-86% leh a hniam lai 39-58% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **000.00mm** ani. (Source- **Mosdac.gov.in**)

Ni 2 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 30-33°C a ni ang a. A vawh lai ber in 13-17°C ni tur ah beisei a ni. RH san lai berin 63-89% leh a hniam lai berin 22-35% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 3-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

**Weekly cumulative rainfall: 05.0mm**

**NDVI for Mizoram**



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



| Thlai/ ran /sangha                  | Spat zawng           | Hmalakna tur/ rannung leh natna hrik awm thei te | Agricultural/Horticultural/ animal husbandry atana thurawn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------|----------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Khasi Mandarin and acid lime</b> | <b>Harvest stage</b> |                                                  | <ul style="list-style-type: none"> <li>• A chi: A chi chu lakchhuah anih vele nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur.</li> <li>• Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur.</li> <li>• Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur.</li> <li>• Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur.</li> <li>• Certified thlai chi chauh hman tur.</li> <li>• Ser kung bula tuitling chu paihfai vek tur.</li> <li>• A tiak inchen tlang chauh phun atan hman tur.</li> <li>• A zar tliak leh hnip chu paih fai zel tur.</li> <li>• Thlai chu hrisel taka enkawl tur.</li> </ul> |
| <b>Oil palm</b>                     | <b>Harvest stage</b> |                                                  | <ul style="list-style-type: none"> <li>• Oil palm kung bul chu tihfai a a zar thlak bawk tur.</li> <li>• Leitha chu thlai pakhat ah 600:200:100g a pek tur.</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> <li>• Oil palm rah chu a puitlin</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                |





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|             |                      |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------|----------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                      |                                       | hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Balhla      | Flower/Harvest stage | KOLASIB<br>MAMIT<br>AIZAWL<br>CHAMPAI | <ul style="list-style-type: none"> <li>Balhla kung bul chu tihfai a a zar thlak bawk tur.</li> <li>Leitha chu thlai pakhatath 600:200:100g a pek tur.</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> <li>A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani.</li> <li>A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.</li> </ul> |
| Sapthei     | Transplant stage     | SERCHHIP<br>LUNGLEI                   | <ul style="list-style-type: none"> <li>A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.</li> <li>A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur.</li> <li>Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur.</li> <li>Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.</li> </ul>                                                                                                                                                             |
| Lakhuihthei | A par lai            | LAWNGTLAI<br>SAIHA                    | <ul style="list-style-type: none"> <li>A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur.</li> <li>Chemical pek atangin ni 55-60 chhungin a par a chhuah thei</li> </ul>                                                                                                                                                                                                                                                                         |



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|                             |                   |                                                                                  |                                                                                                                                                                                                                                                                                                                |
|-----------------------------|-------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             |                   |                                                                                  | ang.<br>• Leitha chu thlai pakhat ah 60:50:60g a pek tur.<br>• Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.                                                                                                                                                                             |
|                             |                   | <b>Corm borer</b>                                                                | • Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur                                                                                                                                                                                                        |
| <b>Cucurbitaceous crops</b> | <b>A rah lai</b>  |                                                                                  | • Ni 7 danah tui chu tha taka pek tur.<br>• Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur.<br>• Thlai pakhatah a par nasat lain urea chu 70g a pek tur. |
| <b>Bawrh Saiabe</b>         | <b>A chin dan</b> | 1. Nursery tihfai a tui tlem pek tur.<br>2. Phunsawn hnuah tui tha taka pek tur. | • A kung bulthut ah hnim chheh darh tur.<br>• A khat tawkin tui pek tur.<br>• A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.                                                                                                                                                                          |
|                             |                   | 1. Aphids                                                                        | • Surf tuiin thlai chu kah tur.<br>• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur                                                                                                                                                |
|                             |                   | 2. Flea beetle                                                                   | • Pangang tui leh a puitling te chu a kung atangin thin thlak tur.<br>• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a                                                                                                                     |



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|  |  |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--|--|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |                                  | kah tur.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|  |  | <b>3. Epilachna beetle</b>       | <ul style="list-style-type: none"> <li>• A hnah a pangang leh a tui awm chu paihfai tur.</li> <li>• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.</li> </ul>                                                                                                                                                                                                                                                                       |
|  |  | <b>4. Leaf hopper</b>            | <ul style="list-style-type: none"> <li>• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>                                                                                                                                                                                                                                                            |
|  |  | <b>Bacterial wilt</b>            | <ul style="list-style-type: none"> <li>• Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur.</li> <li>• Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei.</li> <li>• Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.</li> </ul> |
|  |  | <b>Damping off</b>               | <ul style="list-style-type: none"> <li>• Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur.</li> <li>• Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.</li> </ul>                                                                                                                                                 |
|  |  | <b>Leaf spot and leaf blotch</b> | <ul style="list-style-type: none"> <li>• Dithane M-45 chu tui litre khatah 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur.</li> <li>• Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.</li> </ul>                                                                                                                                                                                        |
|  |  | <b>Leaf spot leh leaf blotch</b> | <ul style="list-style-type: none"> <li>• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu</li> </ul>                                                                                                                                                                                                                                                                                                                               |



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|             |            |           |                                                                                                                                                                                                                                                                                                                 |
|-------------|------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |            |           | <p>1g a pawlhin karkhat danah vawi 2/3 kah thin tur.</p> <ul style="list-style-type: none"> <li>• Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.</li> </ul>                                                                                                                            |
| French bean | A par lai  | KOLASIB   | <ul style="list-style-type: none"> <li>• Bean hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>• Lei chu boruak kal that nan laihphut thin tur.</li> <li>• A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.</li> </ul>                                                                 |
|             |            | MAMIT     |                                                                                                                                                                                                                                                                                                                 |
|             |            | AIZAWL    | <p><b>Blister beetle</b></p> <ul style="list-style-type: none"> <li>• Rannung ho chu mankhawmin thah vek tur.</li> <li>• Cypermethrin 2g chu tui litre khata pawlhin kah thin tur</li> </ul>                                                                                                                    |
| Bawkbawn    | A chin dan | SERCHHIP  | <ul style="list-style-type: none"> <li>• Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur.</li> <li>• A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</li> </ul> |
| Tomato      | A chin dan | LUNGLEI   | <ul style="list-style-type: none"> <li>• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</li> <li>• Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</li> </ul>                                                                         |
|             |            | LAWNGTLAI | <p><b>Aphids</b></p> <ul style="list-style-type: none"> <li>• Surf tuiin thlai chu kah tur.</li> <li>• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>                                                                   |
|             |            | SAIHA     | <p><b>Epilachna beetle</b></p> <ul style="list-style-type: none"> <li>• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea</li> </ul>                                                                                                                                                                     |



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Mizoram Centre, Kolasib- 796081, MIZORAM

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|                     |                  |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Buh                 | Nursery stage    | Pre kharif rice   | beetle a veng thei<br>• A chi tha leh khat tha chauh hman tur.<br>• Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.<br>• Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.                                                                                                                                                                                                                            |
|                     |                  | Raised bed method | • A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng.<br>• Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.                                                                                                                                                                                                                                           |
| Vaimim              | A chin dan       |                   | • Lei chu vawi 2/3 laihphut phawt tur.<br>• A chi chu a line indawt a chin tur<br>• A chi chu kg khatah Thiram 4g a chiah tur.<br>• Hectare khatah buh chi chu 20-25kg hman tur.<br>• Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur. |
| Sawhthing leh Aieng | Land preparation |                   | • Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.<br>• Lei chu boruak kal that nan laihphut thin tur.<br>• Nitrogen leitha chu an mamawh taw kanga pek tur.                                                                                                                                                                                                                                                                             |



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|              |                       |                                                          |                                                                                                                                                                                                                          |
|--------------|-----------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |                       | <b>Thrips</b>                                            | <ul style="list-style-type: none"> <li>Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.</li> </ul>                                                                                                   |
|              |                       | <b>Scales</b>                                            | <ul style="list-style-type: none"> <li>Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.</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:** Kolasib

**Period:** 12 - 16 March, 2016

**Bulletin No:** -595/2016/ Bulletin/English

**Date of issue:** 11<sup>th</sup> March, 2016

| Parameters               | 12.03.2016 | 13.03.2016 | 14.03.2016 | 15.03.2016      | 16.03.2016      |
|--------------------------|------------|------------|------------|-----------------|-----------------|
| <b>Rainfall (mm)</b>     | 1          | 1          | 0          | 1               | 1               |
| <b>Max Temp (°C)</b>     | 32         | 32         | 35         | 32              | 31              |
| <b>Min Temp (°C)</b>     | 16         | 16         | 16         | 14              | 13              |
| <b>Cloud Coverage</b>    | Clear sky  | Clear sky  | Clear sky  | Partially clear | Partially clear |
| <b>Max RH (%)</b>        | 73         | 68         | 79         | 88              | 98              |
| <b>Min RH (%)</b>        | 25         | 23         | 24         | 32              | 40              |
| <b>Wind Speed (Kmph)</b> | 6          | 5          | 2          | 2               | 4               |
| <b>*Wind Direction</b>   | S-E        | S-E        | S-E        | S               | S-E             |

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

**STATUS OF MONSOON- February 1-29, 2016 (Percent of deviation from normal in parenthesis)**

|                                     |                                     |                                   |                                    |
|-------------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| <b>Aizawl- 00.0mm</b><br>(11.5mm)   | <b>Champhai- 00.0mm</b><br>(12.1mm) | <b>Saiha- 00.0 mm</b><br>(13.9mm) | <b>Kolasib- 00.0mm</b><br>(14.8mm) |
| <b>Lawngtlai-00.0mm</b><br>(07.1mm) | <b>Lunglei-5.34mm</b><br>(08.9mm)   | <b>Mamit-00.0mm</b><br>(07.2mm)   | <b>Serchhip-00.0mm</b><br>(12.9mm) |

**Weather summary of the past three days**

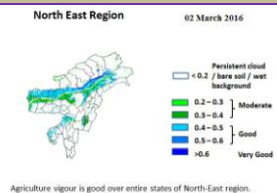
The temperature range for maximum and minimum were 27.7-28.0°C and 20.4-22.6°C respectively. Clear sky was observed. Wind direction is southeasterly. Maximum RH observed 67-74% & minimum of 48-59%. Rainfall recorded for the past three days is **007.40mm.** (Source- [mosdac.gov.in](http://mosdac.gov.in))

**Weather forecast valid from 12<sup>th</sup> March, 2016 To 16<sup>th</sup> March, 2016.**

There are chances of light rainfall during the next 4 day. The maximum and minimum temperatures for the next 5 days may range for 31-35°C and 13-14°C. Maximum relative humidity is expected in the range of 68-98% and minimum may from 23-40%. Wind direction would be southeasterly with the wind speed of 2-6 km per hour. Partially cloudy sky will prevail during the next five days.

**Weekly cumulative rainfall: 04.0 mm**

**NDVI for Mizoram**



NDVI of soil moisture for Mizoram is moderate wet condition.



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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</b>           | <b>Vegetative/<br/>Harvesting<br/>stage</b> | KOLASIB<br>MAMIT<br>AIZAWL               | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Apply Bordeaux mixture to the plant after pruning.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| <b>Oil plam</b>                     | <b>Vegetative/<br/>Harvesting<br/>stage</b> | SERCHHIP<br>LUNGLEI                      | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Apply Bordeaux mixture to the plant after pruning.</li> <li>❖ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| <b>Banana</b>                       | <b>Vegetative/<br/>harvesting</b>           | LAWNGTLAI<br>SAIHA                       | <ul style="list-style-type: none"> <li>❖ Provide irrigation 10-15 days internal.</li> <li>❖ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>❖ Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>❖ Pruning on a regular basis removes unwanted</li> </ul>                                                                                                                                 |



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|                  |                         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------|-------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                         |  | <p>or suckers, keeps production mats in optimum condition, saves fertilizer, reduces pest and disease.</p> <ul style="list-style-type: none"> <li>❖ Fruits are harvested when they attain full size, develop attractive yellow colour.</li> </ul>                                                                                                                                                                                                                                                                                                                          |
| <b>Pineapple</b> | <b>Vegetative stage</b> |  | <ul style="list-style-type: none"> <li>❖ Colocassia, yam, chilies, cabbage, cauliflower, sweet potato, pigeon pea, green gram, black gram, sesame, etc. intercrop with pine apple which give additional income to farmer.</li> <li>❖ Pineapple plants should be irrigated with five or six irrigations during the dry months at intervals of 20–25 days.</li> <li>❖ Cover crops like sweet potato, etc., can also be grown to conserve soil moisture.</li> <li>❖ Mulching with straw and other plant materials is the technique for soil moisture conservation.</li> </ul> |
| <b>Brinjal</b>   | <b>Transplant stage</b> |  | <ul style="list-style-type: none"> <li>❖ Brinjal is planted in well pulverized and leveled field.</li> <li>❖ Brinjal is normally planted in raised beds of 60 to 75 cm width.</li> <li>❖ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation.</li> <li>❖ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.</li> </ul>                                                                                                          |
| <b>Chilli</b>    | <b>Transplant stage</b> |  | <ul style="list-style-type: none"> <li>❖ Chilli is planted in well pulverized and leveled field.</li> <li>❖ Chilli is normally planted in raised beds of 60 to 75 cm width.</li> <li>❖ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation.</li> </ul>                                                                                                                                                                                                                                                         |



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|                          |                          |                 |                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|--------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                          |                 | <ul style="list-style-type: none"> <li>❖ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.</li> </ul>                                                                                                                                                                                      |
| <b>Tomato</b>            | <b>Flowering stage</b>   | KOLASIB         | <ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation in the plant.</li> </ul>                                                                                                                                                                                |
| <b>Pineapple</b>         | <b>Gap filling stage</b> | MAMIT<br>AIZAWL | <ul style="list-style-type: none"> <li>❖ Double row planting is done by alternating two rows of crops by a wider mound or path.</li> <li>❖ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy season, they may begin to decay.</li> </ul> |
| <b>French bean</b>       | <b>Sowing stage</b>      | SERCHHIP        | <ul style="list-style-type: none"> <li>❖ Plough the field properly, at least 2-3 times.</li> <li>❖ Mix fertilizer with FYM 50:60:60Kg/ha.</li> <li>❖ Sow 2-3 seed per whole.</li> <li>❖ Spacing should be 30 X 20 cm.</li> </ul>                                                                                                                                           |
| <b>Cowpea</b>            | <b>Sowing stage</b>      | LUNGLEI         | <ul style="list-style-type: none"> <li>❖ Plough the field properly, at least 2-3 times.</li> <li>❖ Mix fertilizer with FYM 50:60:60Kg/ha.</li> <li>❖ Sow 2-3 seed per whole.</li> <li>❖ Spacing should be 30 X 20 cm.</li> </ul>                                                                                                                                           |
| <b>Mustard and toria</b> | <b>Harvest stage</b>     | LAWNGTLAI       | <ul style="list-style-type: none"> <li>❖ Siliqua and plants turns green to yellow at physiological maturity stage.</li> <li>❖ Cut the plant from base.</li> <li>❖ Sundry for 3 to 5 days.</li> </ul>                                                                                                                                                                       |
| <b>Pea</b>               | <b>Harvest stage</b>     | SAIHA           | <ul style="list-style-type: none"> <li>❖ Green pods are harvested for consumption as vegetables</li> <li>❖ For grain or seed purpose, pods are</li> </ul>                                                                                                                                                                                                                  |



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|                            |                      |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|----------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                      |                                                                          | <p>harvested when fully matured</p> <ul style="list-style-type: none"> <li>❖ Total harvest can be done when pods and plants turns green to yellow.</li> </ul>                                                                                                                                                                                                                                                                                   |
| <b>Ginger and turmeric</b> | <b>Harvest stage</b> | <p>KOLASIB<br/>MAMIT<br/>AIZAWL<br/>SERCHHIP<br/>LUNGLEI<br/>LAWLAIT</p> | <ul style="list-style-type: none"> <li>❖ Turmeric and ginger is harvested when leaves start yellowing and ultimately the stem dries down.</li> <li>❖ The plants are-cut close to the ground.</li> <li>❖ The crop is irrigated lightly for easy digging.</li> <li>❖ Harvesting consists of digging of underground clumps of rhizomes with</li> <li>❖ Pick axe or digging fork.</li> <li>❖ Fingers are separated from mother rhizomes.</li> </ul> |
| <b>Pig</b>                 | <b>All stages</b>    | <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>Adult stage</b>   | <b>Ranikhet Disease.</b>                                                 | <ul style="list-style-type: none"> <li>• F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> </ul>                                                                                                                                                                                                                                                                                                               |
|                            | <b>Early stage</b>   | <b>Coccidiosis</b>                                                       | 1. Amprolium or coccidiostat                                                                                                                                                                                                                                                                                                                                                                                                                    |





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