

R RESEARCH COMPLEX FOR NEH REGION ICA

Mizoram Centre, Kolasib- 796081, MIZORAM

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



#### **District:** Aizawl

Bulletin No: - 717/2017/ Bulletin/English

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

| Parameters              | 12.07.2017                    |   | 14.07.2017                  | 15.07.2017                    | 16.07.2017             |  |
|-------------------------|-------------------------------|---|-----------------------------|-------------------------------|------------------------|--|
| Rainfall (mm)           | 24                            | 12  | 7                           | 0                             | 0                      |  |
| Max Temp (°C)           | 29                            | 26  | 29                          | 29                            | 32                     |  |
| Min Temp (°C)           | 13                            | 14  | 14                          | 14                            | 14                     |  |
| Cloud Coverage          | Mainly cloudy                 |   | Mainly cloudy               | Mainly cloudy                 | Partially clear        |  |
| Max RH (%)              | 99                            | 99  | 100                         | 99                            | 98                     |  |
| Min RH (%)              | 81                            | 91  | 88                          | 91                            | 75                     |  |
| Wind Speed (KmpH)       | 2                             | 2   | 2                           | 2                             | 2                      |  |
| *Wind Direction         | N-E                           | S-E   | E                           | E                             | E                      |  |
| Northe                  | rly- N, North-                | Easterly- N-E, Eas  | sterly- E, South            | -Easterly- <mark>S-E</mark> , |                        |  |
| Souther                 | rly- <mark>S</mark> , South-V | Westerly- <mark>S-W</mark> , We   | sterly-W, North             | -westerly- N-W.               |                        |  |
| STATUS OF MONSO         | OON- April 1-3                | 0, 2017 (Percent  | of deviation fr             | om normal in p                | arenthesis)            |  |
| <b>Aizawl-</b> 384.87mm | Champha                       | i- 105.48mm   | Saiha- 307.40 n             | nm Kolasib-                   | 236.00mm               |  |
| (430.2mm)               |                               | (359.89mm)  | (507.7r                     | nm)                           | (428.1mm)              |  |
| Lawngtlai-291.20mm      | Lunglei-                      | -326.00mm   | <mark>Mamit-204.87</mark> n | nm Serchhip                   | -411.72mm              |  |
| (453.1mm)               |                               | (465.14mm)  | (442.80r                    |                               | (259.62mm)             |  |
| Weather summary         | of the past                   | Weather fored   | cast valid fron             | n 12 <sup>th</sup> July, 20   | 17 To 16 <sup>th</sup> |  |
| three day               | s                             |   | July, 2                     | 017.                          |                        |  |
| Maximum Tem. (°C):2     | 27-28ºC                       | There are chanc   | es of moderate              | e to light rainfa             | ll during the          |  |
| Minimum Tem. (°C):1     |                               | next 3 days. The maximum and minimum temperatures for                         |                             |                               |                        |  |
| Maximum RH (%):83-      | /                             | the next 5 days may range for 26-32°C and 13-14°C.                            |                             |                               |                        |  |
| Minimum RH (%):72-      | 84%                           | Maximum relative humidity is expected in the range of 98-                     |                             |                               |                        |  |
| Wind Direction: Sout    | heasterly                     | 100% and minimum may from 75-91%. Wind direction                              |                             |                               |                        |  |
| Cloud cover: Mainly o   | cloudy                        | would be northeasterly to southeasterly and easterly with                     |                             |                               |                        |  |
| Wind speed: 2-4 km/     |                               | the wind speed of 2 km per hour. Mainly cloudy will prevail                   |                             |                               |                        |  |
|                         |                               | during the next f   | -                           | ii. manny ciouc               | iy will prevail        |  |
| Rainfall: 32.4 mm       |                               | uuring the next i   | ive days.                   |                               |                        |  |
|                         |                               | III c -1-1  |                             | nain fa 11, 40, 0             |                        |  |
|                         |                               | νεεκι   |                             | rainfall: 43.0                |                        |  |
| NDVI for Mizoram        |                               | North East Region 29 June 2017  |                             | wet mildly dr                 | y/mildly wet           |  |
|                         |                               |   | conditions                  |                               |                        |  |
|                         |                               | 0.2-0.3   |                             |                               |                        |  |
|                         |                               | 0.4-0.5<br>0.5-0.6<br>0.4-0.7   | Good<br>Wery Good           |                               |                        |  |
|                         |                               | Agriculture vigour is good over most of the parts Northern As                 | 471                         |                               |                        |  |
|                         |                               | Tripura and Meghalaya whereas moderate vigour is noticed in<br>of the region. | est                         |                               |                        |  |
|                         |                               |   |                             |                               |                        |  |
|                         |                               | V   | p3                          |                               | 1   Page               |  |
|                         |                               |   |                             |                               | 111450                 |  |



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

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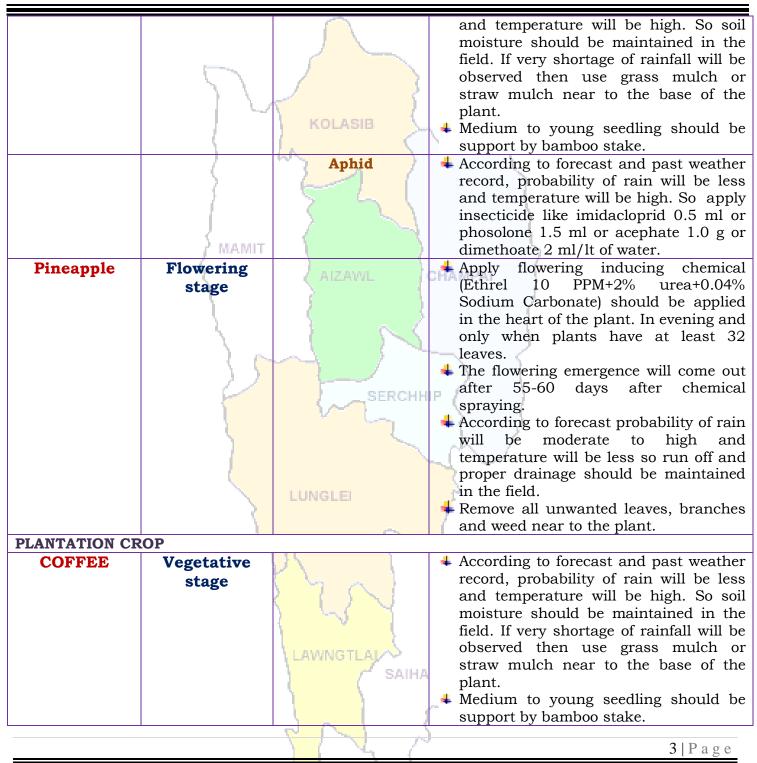
|               | <u><u> </u></u>                         | 0 11 1             |  |
|---------------|---|--------------------|--|
| Main Crop/    | Stage                                   | Cultural           | Agricultural / Horticultural/ animal   |
| Animal        |   | practices/ Pest/   | husbandry advisories   |
| /Fisheries    |   | Diseases           |  |
| FRUITS CROPS  |   |                    |  |
| KHASI         | Seedling                                | 5                  | <b>4</b> According to forecast and past weather  |
| MANDARIN      | transplanting                           | KOLASIB            | record, probability of rain will be less   |
| AND ACID      | stage                                   |                    | and temperature will be high. So soil  |
| LIME          | J                                       | in N               | moisture should be maintained in the   |
|               |   | 1 1                | field. If very shortage of rainfall will be  |
| BANANA        | (                                       |                    | observed then use grass mulch or   |
|               | ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) |                    | straw mulch near to the base of the  |
|               |   |                    | plant.   |
| STAR FRUIT    | A MAMIT                                 |                    | 4 Medium to young seedling should be   |
|               | 1                                       |                    | support by bamboo stake.   |
| PLUM AND      | 5                                       | AIZAWL             | □  |
| PEACH         |   |                    | at any time; however, spring is the best   |
| PEACH         | l l                                     | - (                | time for container grown plants.   |
|               |   |                    | <b>4</b> Standard-size trees should be spaced  |
|               |   |                    | 12 to 25 feet apart and dwarf trees  |
|               |   |                    | should be set 6 to 10 feet apart. The  |
|               |   |                    | exact distance depends on the variety.<br>The bigger the fruit, the farther  |
|               |   | SERCHH             | the distance.  |
|               |   |                    | Use split dose of fertilizer for normal  |
|               |   |                    | growth and development.  |
|               |   | Gummosis, citrus   | According to forecast and past weather   |
|               |   | Canker, Citrus     | record, probability of rain will be less   |
|               |   | LUngreening,       | and temperature will be high. So   |
|               | >                                       | Dieback, Lamon     | following pest problem will be high  |
|               |   | butterfly and leaf | <b>Lamon butterfly</b> - Spray monocrotophos   |
|               | <u> </u>                                | minor              | $a = \frac{1}{2} a = $ |
|               |   |                    | <b>Leaf minor</b> - Spray confidor 0.05% (0.5  |
|               |   |                    | ml/lit of water) at each flush   |
|               |   |                    | emergence.   |
|               |   |                    | <b>4</b> Citrus Canker- Apply bacterimycin   |
|               |   |                    | @0.6 g/lt of water.  |
| Passion Fruit | Vegetative                              |                    | <b>4</b> Trail semi hard wood stem to bower  |
|               | stage                                   | SAIHA              | structure  |
|               |   |                    | • Clean near the base of the plant.  |
|               |   |                    | 4 According to forecast and past weather   |
|               |   |                    | record, probability of rain will be less   |
|               |   |                    | 210  |
|               |   |                    | 2   P a g e  |



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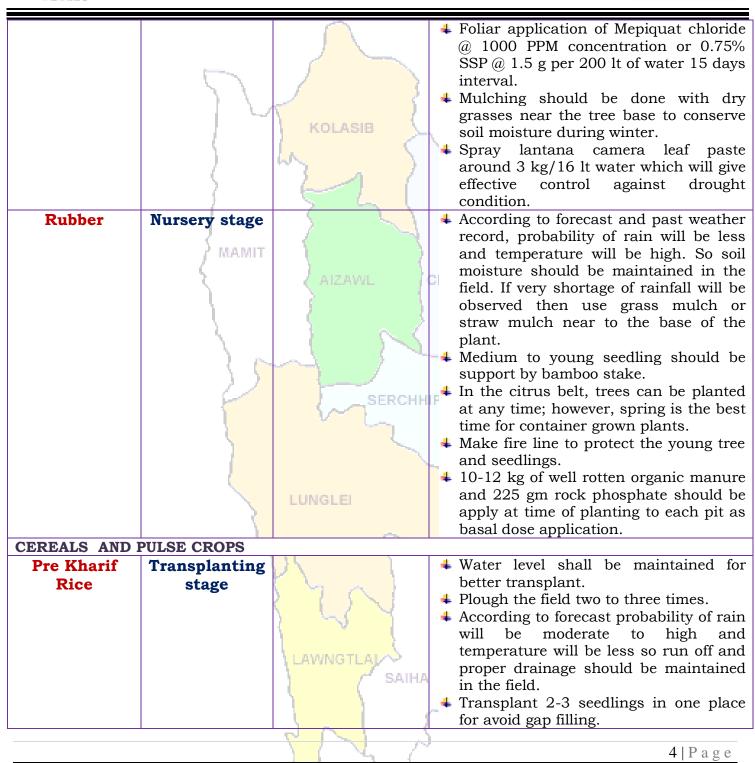




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|                     | 5                              | Rice thrips and                              | <ul> <li>Spacing should be 20 cm row to row and 15 cm plant to plant.</li> <li>Keep some seedlings in nursery or corner of the field for gap filling.</li> <li>According to forecast probability of rain will</li> </ul>  |
|---------------------|--------------------------------|--|---|
|                     |                                | rice leaf mites                              | <ul> <li>be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul>  |
| Jhum Rice           | Germination<br>stage<br>MAMIT  | AIZAWL                                       | <ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> </ul>   |
|                     | Z                              | Rice stem borer<br>and leaf folder<br>SERCHH | <ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water for or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul> |
| Maize<br>(Jhum)     | Vegetative<br>stage            | LUNGLEI                                      | <ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> </ul>   |
| <b>VEGETABLE CR</b> | OP                             |  |   |
| Cowpea              | Flowering to<br>fruiting stage |  | <ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower structure</li> </ul>     |
|                     |                                | PN P   | 5   P a g e   |



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| ICAR         |                |                 |   |
|--------------|----------------|-----------------|---|
|              |                |                 | 4 Clean near the base of the plant.                           |
| Okra         | Flowering to   |                 | <ul> <li>According to forecast probability of rain</li> </ul> |
| ORIa         |                |                 | will be moderate to high and                                  |
|              | fruiting stage |                 | temperature will be less so run off and                       |
|              |                | 1 5             | -   |
|              |                | 5               | proper drainage should be maintained                          |
|              |                | KOLASIB         | in the field.   |
|              |                |                 | Don't use split dose of fertilizer for top                    |
|              |                | W N             | dressing.   |
|              | (              | 3 4 /           | <b>4</b> Trail semi hard wood stem to bowe                    |
|              | 7              |                 | structure   |
|              |                |                 | Clean near the base of the plant.                             |
|              |                | Okra leafroller | Apply insecticide like imidacloprid 0.5 ml o                  |
|              | (              |                 | phosolone 1.5 ml or acephate 1.0 g or                         |
| ~            | MAMIT          |                 | dimethoate 2 ml/lt of water.                                  |
| Ginger and   | Vegetative     | AIZAWL          | According to forecast probability of rair                     |
| turmeric     | stage          | Concorre 1      | will be moderate to high and                                  |
|              |                | 1 S 1           | temperature will be less so run off and                       |
|              |                | 5 2             | proper drainage should be maintained                          |
|              | N 1            |                 | in the field.   |
|              |                |                 | 📕 Apply well decomposed FYM/ pi                               |
|              |                |                 | manure @ 10-20 t/ha along with                                |
|              |                |                 | $120:80:60$ kg N, $P_2O_5$ and $K_2O/ha$                      |
|              |                | SERCHH          | incorporate with soil for bette                               |
|              |                |                 | development.  |
| Colocasia    | Vegetative     |                 | According to forecast probability of rair                     |
|              | stage          |                 | will be moderate to high and                                  |
|              |                |                 | temperature will be less so run off and                       |
|              |                | LUNGLEI         | proper drainage should be maintained                          |
|              | <u> </u>       | LONGLEI         | in the field.   |
|              |                | _               | Apply well decomposed FYM/ pi                                 |
|              |                | ~ ~~            | manure @ 10-20 t/ha along with                                |
|              |                |                 | $120:80:60$ kg N, $P_2O_5$ and $K_2O/ha$                      |
|              |                |                 | incorporate with soil for bette                               |
|              |                |                 | ) development.  |
| ANIMAL HUSBE | NDARY          |                 | L   |
| Pig          | All stages     | · · · ·         | 4 As the weather gets colder, your pigs                       |
| 6            |                |                 | energy requirement will increase, as                          |
|              |                | LAWNGTLAL       | they need more energy to keep warm.                           |
|              |                | SAIHA           | 4 Regularly monitor their level of fitness                    |
|              |                |                 | and increase their feed intake to                             |
|              |                |                 | maintain.   |
|              | I              | 201             |   |
|              |                | 1121            | <b>6</b>   P a g e  |
|              |                |                 |   |

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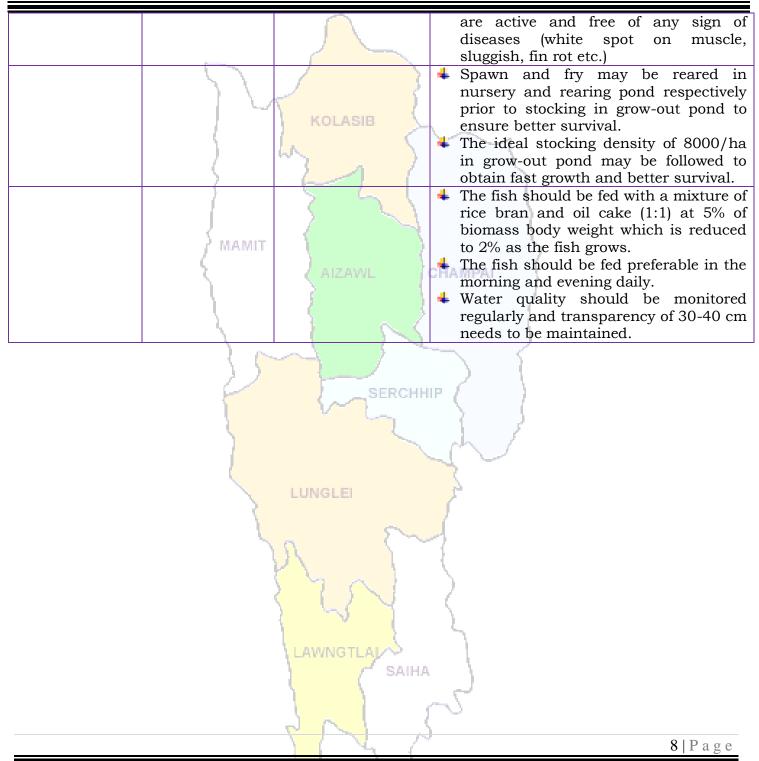
|         |                         | $\sim$  | Fish oils are excellent for providing<br>slow-release energy with the added<br>advantage of a high level of omega-3.  |
|---------|-------------------------|---|---|
|         |                         | Porcine<br>Reproductive<br>Respiratory<br>Syndrome<br>(PRRS). | 1. Culling of positive pigs or piglets.   |
|         | Adult stage             | Swine fever.  | 2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval  |
| Cattle  | All age group           | AIZAWL  | <ul> <li>During either hot or heavy rainy condition, animal are advised to keep under shade.</li> <li>Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.</li> </ul> |
| Poultry | Litter<br>management    | LUNGLEI   | <ul> <li>Birds require adequate space, sufficient<br/>feed to meet their nutritional<br/>requirements and an adequate supply</li> </ul>   |
|         | Preventive<br>measures  | 0-3 rd week   | <ul> <li>Ranikhet Disease- F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> <li>B complex with antibodies</li> </ul>  |
|         |                         | 4 <sup>th</sup> weeks   | <b>Coccidiosis-</b> Amprolium or coccidiostat   |
|         |                         | 4-5 <sup>th</sup> Weeks                                       | <b>4</b> Calcium tonic fortified with B <sub>12</sub>   |
| FISHERY | Stocking and monitoring | SAIHA   | Healthy fish seed may be procured from<br>hatcheries for stocking in the pond. It<br>should be ensured that the fish seed   |
|         |                         |   | <b>7</b>   P a g e  |



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V LAWNGTLA] SAIHA

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#### **District: Aizawl**

#### Bulletin No: - 717/2017/ Bulletin/Mizo

Period: 12 July - 16 July, 2017

#### Date of issue: 11th July, 2017

|  | <u> </u>                                    | 1   | 1   |                                   |   |
|--|---|---|---|-----------------------------------|---|
| Parameters   | 12.07.2017                                  | 13.07.2017  | 14.07.2017  | 15.07.2017                        | 16.07.2017  |
| Rainfall (mm)  | 24  | 12  | 7   | 0                                 | 0   |
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| Cloud Coverage   | Mainly cloudy                               | Mainly cloudy   | Mainly cloudy   | Mainly cloudy                     | Partially clear                                   |
| Max RH (%)   | 99  | 99  | 100   | 99                                | 98  |
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| Wind Speed (KmpH)  | 2   | 2   | 2   | 2                                 | 2   |
| *Wind Direction  | N-E   | S-E   | E   | E                                 | E   |
|  | ly- <mark>S</mark> , South-W                | Easterly- <mark>N-E</mark> , Ea<br>Vesterly- <mark>S-W</mark> , We  | sterly-W, North   | -westerly- N-W.                   | arenthesis)                                       |
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| three days   | -   | · · · · · · · · · · · · · · · · · · ·   | · · · · · · · · · · · · · · · · · · ·                   |                                   | sik ien sa  |
| Maximum Tem. (°C):2<br>Minimum Tem. (°C):1<br>Maximum RH (%):83-<br>Minimum RH (%):72-3<br>Wind Direction: South<br>Cloud cover: Mainly of<br>Wind speed: 2-4 km/<br>Rainfall: 32.4 mm | 9-21°C<br>92%<br>84%<br>heasterly<br>cloudy | dinhmun tur tlangpuiTun ni 3 chhung lo awm turah hian ruahtui tla mia<br>tura beisei a ni. Khua a lum lai berin 26-32°C a ni ang a<br>vawh lai ber in 13-14°C ni tura beisei a ni. RH san<br>berin 98-100% leh a hniam lai berin 75-91% ni tur a<br>niin. Thli hi darkar khatah 2 km vela chakin chhaklam a<br>zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhu<br>hian khawthiang tak hmuh beisei a ni.Weekly cumulative rainfall: 43.0mm |   |                                   |   |
| NDVI for Mizoram   |   | North East Region 29 Jane 2017  | stil/ver<br>mend<br>Gend<br>Ny food<br>States           | wet mildly dr                     | y/mildly wet                                      |
|  |   | V V   | ["  |                                   | 1   P a g e                                       |



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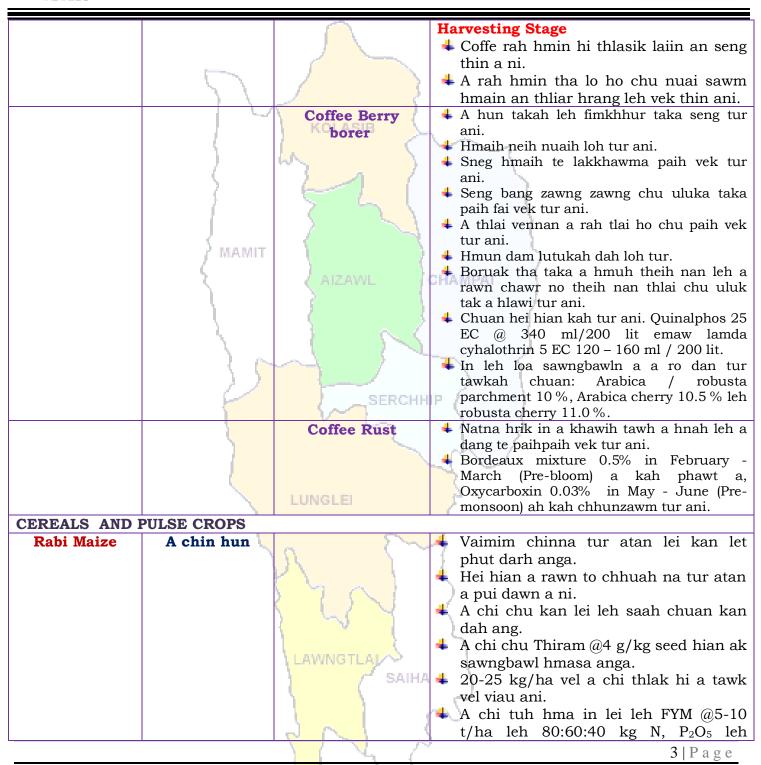
| Main Crop/    | Stage                                   | Cultural         | Agricultural / Horticultural/ animal              |
|---------------|---|------------------|---|
| Animal        |   | practices/ Pest/ | husbandry advisories                              |
| /Fisheries    |   | Diseases         |   |
| FRUITS CROPS  |   | •                | ·   |
| KHASI         | A kui atanga                            | -                | 4 Thlasik laia thlai bul khoro lutuk tur          |
| MANDARIN      | a seng hun                              | KOLASIB          | vennan chuan hnim hnah hring tlai bul             |
| AND ACID      |   |                  | velah dahkhawm tur ani.                           |
| LIME          |   | W V              | 4 Thlai naupang deuah chuan chawlh                |
|               | (                                       | 1 1              | kar tin a tui pek thin tur ani.                   |
| BANANA        | (                                       |                  | 4 Leia tha mamawh tawk a hmuh                     |
|               | ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) | 1 6 5            | theihna turin a hmunhma a hnim awm                |
|               | j j                                     |                  | te thlawhfai thin tur ani.                        |
| STAR FRUIT    | A MAMIT                                 |                  | <b>4</b> A seng hma kar 6 chhung chu tui tha      |
|               | 1                                       |                  | taka pek hian a rah tla tur chelh nan             |
| PLUM AND      | 2                                       | AIZAWL           | c leh a rah than that nan te leh a rah            |
| PEACH         | l l                                     |                  | keh tur lakah t a veng thei ani.                  |
| I DACH        |   | Gummosis, citrus | <b>4</b> Temperture hniam lutuk leh hnawng vang   |
|               |   | canker, citrus   | hian natna a a tam duh a . Soil bome natna        |
|               |   | greening and     | – laka vennan Bordeaux past hi thing zar leh      |
|               | - \ \ \                                 | Dieback          | a trangah te hnawih tur ani.                      |
|               |   | Fruit fly RCHH   | 🔸 Huan zau takah chuan a par tan tirh leh a       |
|               |   |                  | rah tan tirin chawlhkar hnih chhung chu           |
|               |   |                  | heng te hian enkawl tur ani: carbaryl 0.2         |
|               |   |                  | percent emaw malathion 0.15 percent               |
|               |   |                  | suspension containing sugar or jeggery at 10 g/l. |
| PLANTATION CR | OP                                      |                  | 10 g/1.   |
| COFFEE        | All stages                              | LONGLEI          | Nursery stage                                     |
|               | mi stages                               |                  | + Thlai chi thlak hma in Azospirillum leh         |
|               |   | - <u>~</u>       | Phosphobacterium a enkawl tur ani.                |
|               | )                                       |                  | 🖊 A chi hi December – January ah hmun             |
|               |   |                  | zawl/rualrem 1.5 - 2.5 cm a in hlatin             |
|               |   |                  | ) tlar mumal tak siam in chin tur ani.            |
|               |   |                  | 4 Chuan a chi chu lei tlem te a chhilh a          |
|               |   |                  | buhpawla khuh tur ani.                            |
|               |   |                  | 4 Nitin tui pek tur ani a, a sat lutuka loh       |
|               |   | LAWNGTLAL        | nan niin a chhun loh nan zar hliah tur            |
|               |   | SAIHA            |   |
|               |   |                  | 4 Ni 45 hnu velah a tiak thin a,chu chu           |
|               |   |                  | bag ah an sawn chhuak leh thin ani.               |
|               |   |                  | )   |
|               |   | <u> </u>         | 2   P a g e                                       |



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| 0 1                            |                 |              | K <sub>2</sub> O/ha pawlh chu hman phawt tur a<br>ni. Nitrogen dose chanve chu a chi tuh<br>hunlaia hman tur a ni a, tichuan a<br>bang 25% chu thla khat hnu ah ani<br>ang a adang leh 25% chu a par hunah<br>hman tur a ni. |
|--------------------------------|-----------------|--------------|--|
| Soybean, pea,<br>lentil toria, | All stage       | Zero tillage | <ul> <li>A than a that theih nan nikhat danah<br/>tui pek thin tur ani.</li> <li>I ai rib mun bion thlai lung ta a uang ua</li> </ul>  |
| breen gram<br>and black        | 5               |              | Lei rih vur hian thlai kung te a veng ve ani.  |
| gram                           | 1               | 251          | Thlasik lai a lei khoro lutuk tur ven<br>nan a chungah hnim leh thildanga  |
| cultivation in<br>rice fellow  | Į               |              | khuh tur ani.  |
| Potato                         | Sowing stage    | AIZAWL       | <b>4</b> Muangchang loving alu chin na tur   |
|                                | 1               | Shichme      | <ul> <li>CHA chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin</li> </ul>  |
|                                |                 |              | lakah a veng dawn ani.   |
|                                |                 |              | Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.   |
|                                |                 | $\sim$ $/$   | 📕 🗛 chi thlak hma in a chi chu en fiah   |
|                                | 6               | SERCHH       | hmasak tur ani.<br>A than a that theih nan nikhat danah  |
|                                |                 | 1 Vr L       | tui pek thin tur ani.  |
| VEGETABLE CRO                  | OP<br>Bacterial |              | 🐇 Tomato bikah chuan sik leh sa hi   |
| Tomato                         | Blight disease  |              | natna an kaina tlang lawn ber ani .  |
|                                |                 | LUNGLEI      | 4 Hmun hnawng leh ni hmu lo lutuk  |
|                                | 2               |              | hmunah chuan natna an kai hma bik<br>ani.  |
|                                | L 1             | ~ ~          | 斗 Tomato hi a uai a, a thih mai loh nan  |
|                                |                 |              | Ridomil emaw Indofil emaw Mancozeb   |
|                                |                 |              | <ul> <li>@ 2 gm hi tui liter 1 ah pawlh a kah</li> <li>tur ani .</li> </ul>  |
| Early Cole                     | Black spot      | N GY         | 🔸 A than a that theih nan nikhat danah   |
| crop                           | disease         |              | tui pek thin tur ani.<br>Thlai bul vawn hnawn nana thlai bula  |
|                                |                 | LAWNGTLAL    | hnim ring vawm khawm hi tui pek  |
|                                |                 | SAIHA        |  |
|                                |                 |              | Zikhlum lam chi ah chuan sik leh   |
|                                | 1               | 200          |  |
|                                |                 |              | 4   P a g e  |



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|                       | 2             | KOLASIB               | awm thin a , hei hi natna tlanglawn<br>ber ani.<br>Thlai hna lam chi leh zikhlum lam<br>chi reng reng enkawl nan Mancozeb<br>@ 2gm ah tui leter 1 pawlha kah<br>tur ani.   |
|-----------------------|---------------|-----------------------|--|
| Onion and<br>capsicum | Nursery stage | Poly house            | <ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Thlai chhina hmun (nursery) hi hnim a</li> </ul>  |
|                       | AMAMIT        | AIZAWL<br>Phytopthora | to loh nan Pendimethalin @ 3.5ml hi<br>tui liter 1 zelah pawlh a kah hi a tha<br>CHA hle ani.<br>A chi ven that nan thiram 3g/kg seed  |
|                       | 35            | blight                | <ul> <li>emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani</li> <li>Hneh taka 1% Bordeaux chawhpawlh</li> <li>emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.</li> </ul>   |
| French bean           | Sowing stage  | LUNGLEI               | <ul> <li>Tui pek a hnihnah hringa khuh tur ani<br/>a. than a that theih nan tui pek hma<br/>in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh<br/>na turin a kung bulah lei vur chhoh zel<br/>tur ani.</li> </ul>  |
| Carrot and<br>radish  | Sowing stage  |                       | <ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan</li> </ul> |
|                       |               |                       | Mancozeb @ 2gm ah tui leter 1<br>pawlha kah tur ani.<br>5 Page   |



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| ANIMAL HUSBE | NDARY                |  |  |
|--------------|----------------------|--|--|
| Pig          | All stages           | KOLASIB  | <ul> <li>Khua a vawh hian vawk hian an mahni<br/>in tih lumna tur atan chakna an<br/>mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah<br/>renga, a chaw ei tur tlem tlema tih tam<br/>hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam<br/>em a vangin an chakna muangchanga<br/>a in siam chhoh zel theih nan a tha hle</li> </ul> |
|              | AMMIT                | Porcine<br>Reproductive<br>Respiratory<br>Syndrome | ani.<br>1. Vawknote emaw vawk lak hran.<br>CHAMPAI   |
|              | Adult stage          | (PRRS).<br>Swine fever.                            | 2. SF vaccines hi thla 2 hnua pek tur ani a,<br>chumi hnuah chuan kumtin thlaruk<br>danah pek chhunzawm tur ani.   |
| Cattle       | All age group        | SERCHH   | • Hun rei tak khua a ro avanga hnim<br>hnah hring peh tur a awm loh laia   |
|              | All age group        | Foot and Mouth<br>Disease (FMD)                    | • Kar 16 hnuah FMD vaccine pek a,<br>chuan thla tin thla 6 chhung<br>chhunzawm tur ani.  |
|              | Young stage          | Black Quarter<br>(BQ)                              | <ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah<br/>emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum<br/>tin pek tur ani.</li> </ul>   |
| Poultry      | Litter<br>management | LAWNGTLAL  | Ar te hian hmun thawl nuam tawk,<br>chaw tha an mamawh tawk leh tui<br>thianghlim an mamawh tawk an hmu<br>tur ani a.  |
|              |                      | R L 7  | <b>6</b>   P a g e   |



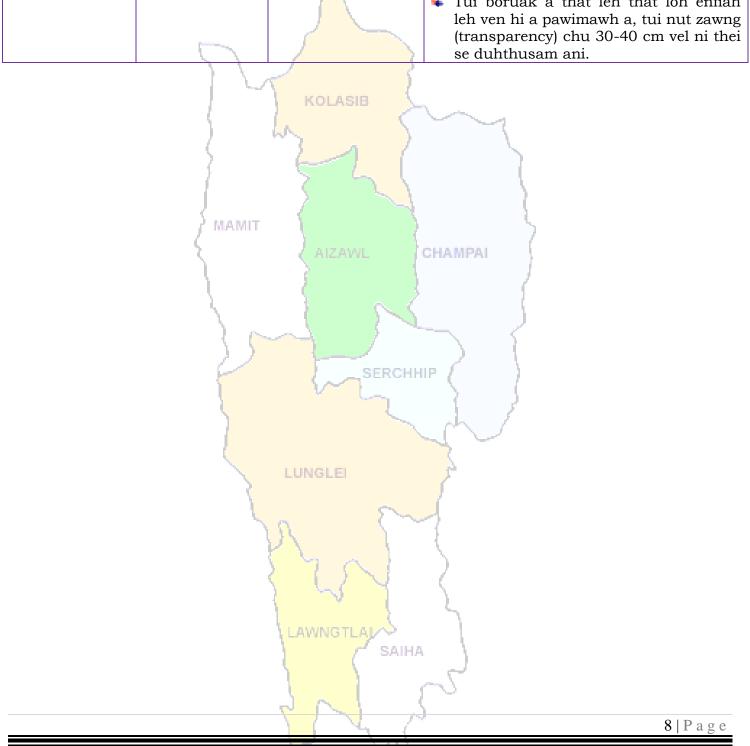
ICAR RESEARCH COMPLEX FOR NEH REGION

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| <ul> <li>Preventive measures</li> <li>O-3<sup>-d</sup> week</li> <li>Preventive measures</li> <li>O-3<sup>-d</sup> week</li> <li>Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R<sub>2</sub>B vaccine pek tur ani.</li> <li>B complex with antibodies</li> <li>Coccidiosisi- Amprolium or coccidiostat</li> <li>FISHERY</li> <li>Stocking and monitoring (Sangha chhuah leh enkawl)</li> <li>Stocking and monitoring (Sangha chhuah leh enkawl)</li> <li>UNCLE</li> <li>Stocking and monitoring (Sangha chhuah leh enkawl)</li> <li>Stocking and (Sangha china thin a tha ber a ngah ani.</li> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlini an taksa rihawn pawlini ant atka ani a chaw pek thi nu an a, sangha a lo len deuh nu a za za pahnih angin an</li></ul>            | ICAR    |                                     |         |   |
|--|---------|-------------------------------------|---------|---|
| measures       1-6-ah F1 vaccine pek tur ani a, chuan a puttingh chuan R2B vaccine pek tur ani.         4th weeks       Coccidiosis- Amprolium or coccidiostat         4th weeks       Calcium tonic fortified with B12         FISHERY       Azart         Stocking and monitoring (Sangha chhuah leh enkawl)       Azart         (Sangha chhuah leh enkawl)       Azart         UNGLE       Stocking and monitoring (Sangha chhuah leh enkawl)         (Sangha chhuah leh enkawl)       Stocking and monitoring (Sangha note hart had chu leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo thi hriat chian lei hram tur mu tur ani .         Stocking and monitoring (Sangha a tot hart had tur) veilo thi hriat chian lei hram tur mu tur ani .         Stocking and monitoring (Sangha a tot hartha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo thi hriat chian lei hram tur mu tur ani .         Stocking and monitoring (Sangha tot hartha turin, dilpui (grow out) a chuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha.         Sangha a to than thata turin diltuikhuah hectare khat zel a zuaha sangha note 80000 bawr vel chhuah h a tha ber a ngaih ani.         Sangha te chu favai leh oik cake zat leh an thay za zel ap hpini angi an chaw pek thi nur ani a, sangha a lo lei ndeuh hnu ah za zel a pahnih angi an chaw pek thi nur ani a, sangha a lo lei ndeuh hua ta zel ap aphnih angi an chaw pek thin nur ani.   |         | 2                                   |         | Chaw a hmuar/thing pek loh tur ani a,<br>an chaw eitur thlak sak thut loh tur<br>ani.   |
| FISHERY       4-5th Weeks       Calcium tonic fortified with B12         FISHERY       Alamination of the second o |         | 1 1                                 | 222     | <ul> <li>1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R<sub>2</sub>B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>   |
| FISHERY       Alzawi       CHAMPAI         Stocking and<br>monitoring<br>(Sangha<br>chhuah leh<br>enkawl)       Dila chhuah turin sangha no te hrisel<br>tha hatchery atangin lei tur ani.<br>Sangha note harh tha deuh leh natna<br>(taksa var, harhlo, pangparh hmawr<br>tawih) veilo tih hriat chian lei hram<br>tum tur ani.         Stretti       Stretti         Image: Stretti       Stretti   |         | AMAMIT                              |         | coccidiostat  |
| Stocking and<br>monitoring<br>(Sangha<br>chhuah leh<br>enkawl) <ul> <li>Dila chhuah turin sangha no te hrisel<br/>tha hatchery atangin lei tur ani.<br/>Sangha note harh tha deuh leh natna<br/>(taksa var, harhlo, pangparh hmavr<br/>tawih) veilo tih hriat chian lei hram<br/>tum tur ani.</li> <li>Sangha note piang hlim (Spawn) leh a<br/>mit lawk (fry) te chu dam khawchhuak<br/>(puitling) an tam zawk theina turin,<br/>dilpui (grow out) a chhuah hmain<br/>nursery leh rearing tuikhuah ah khawi<br/>hmasak phawt a tha.</li> <li>Sangha a lo than chak zawknan leh an<br/>dam thatna turin diltuikhuah hectare<br/>khat zel a zauah sangha note 8000<br/>bawr vel chhuah hi a tha ber a ngaih<br/>ani.</li> <li>Sangha te chu favai leh oik cake zat leh<br/>zat (1:1) a chawh pawlhin an taksa<br/>rihzawng za zel ab panga ang vel a<br/>chaw pek thin tur ani a, sangha a lo<br/>len deuh hnu ah za zel a pahnih angin<br/>ah chaw pek thin tur ani.</li> <li>Sangha te chu nitin zing leh tlaiah<br/>chaw pek thin tur ani.</li> <li>Sangha te chu nitin zing leh tlaiah</li> <li>Sangha te chu ni</li></ul>  | FISHERY | <u> </u>                            |         |   |
| <ul> <li>mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha.</li> <li>Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.</li> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih nhiam thin tur.</li> <li>Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.</li> </ul>   |         | monitoring<br>(Sangha<br>chhuah leh |         | <ul> <li>Dila chhuah turin sangha no te hrisel<br/>tha hatchery atangin lei tur ani.<br/>Sangha note harh tha deuh leh natna<br/>(taksa var, harhlo, pangparh hmawr<br/>tawih) veilo tih hriat chian lei hram<br/>tum tur ani.</li> </ul> |
| bawr vel chhuah hi a tha ber a ngaih<br>ani.<br>Sangha te chu favai leh oik cake zat leh<br>zat (1:1) a chawh pawlhin an taksa<br>rihzawng za zel ah panga ang vel a<br>chaw pek thin tur ani a, sangha a lo<br>len deuh hnu ah za zel a pahnih angin<br>an chaw pek tih hniam thin tur.<br>Sangha te chu nitin zing leh tlaiah<br>chaw pek thin tur ani.  |         |                                     | LUNGLEI | mit lawk (fry) te chu dam khawchhuak<br>(puitling) an tam zawk theina turin,<br>dilpui (grow out) a chhuah hmain<br>nursery leh rearing tuikhuah ah khawi   |
| SAIHA<br>Sangha te chu favai leh oik cake zat leh<br>zat (1:1) a chawh pawlhin an taksa<br>rihzawng za zel ah panga ang vel a<br>chaw pek thin tur ani a, sangha a lo<br>len deuh hnu ah za zel a pahnih angin<br>an chaw pek tih hniam thin tur.<br>Sangha te chu nitin zing leh tlaiah<br>chaw pek thin tur ani.   |         | <u> </u>                            | AM      | khat zel a zauah sangha note 8000<br>bawr vel chhuah hi a tha ber a ngaih<br>ani.   |
| Sangha te chu nitin zing leh tlaiah<br>chaw pek thin tur ani.  |         |                                     |         | Sangha te chu favai leh oik cake zat leh<br>zat (1:1) a chawh pawlhin an taksa<br>rihzawng za zel ah panga ang vel a<br>chaw pek thin tur ani a, sangha a lo<br>len deuh hnu ah za zel a pahnih angin                                     |
|  |         |                                     | SAINA   | Sangha te chu nitin zing leh tlaiah   |
|  |         |                                     |         | 7   Page  |





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#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



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CHAMPAL

LAWNGTLA SAIHA

9 | P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM

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



#### **District:** Champhai

Bulletin No: - 717/2017/ Bulletin/English

Period: 12 July - 16 July, 2017

#### Date of issue: 11th July, 2017

|                       | <u> </u>                              | 1  |                                       |                                       |                 |
|-----------------------|---------------------------------------|--|---------------------------------------|---------------------------------------|-----------------|
| Parameters            | 12.07.2017                            | 13.07.2017   | 14.07.2017                            | 15.07.2017                            | 16.07.2017      |
| Rainfall (mm)         | 24                                    | 20   | 9                                     | 3                                     | 6               |
| Max Temp (°C)         | 29                                    | 26   | 29                                    | 29                                    | 32              |
| Min Temp (°C)         | 23                                    | 23   | 24                                    | 24                                    | 23              |
| Cloud Coverage        | Mainly cloudy                         | Mainly cloudy  | Mainly cloudy                         | Mainly cloudy                         | Partially clear |
| Max RH (%)            | 99                                    | 99   | 100                                   | 99                                    | 98              |
| Min RH (%)            | 87                                    | 89   | 89                                    | 92                                    | 78              |
| Wind Speed (KmpH)     | 2                                     | 2  | 2                                     | 2                                     | 2               |
| *Wind Direction       | E                                     | S-E  | S-E                                   | S-E                                   | S-E             |
|                       | rly- <mark>S</mark> , South-W         | Easterly- <mark>N-E</mark> , Eas<br>Vesterly- <mark>S-W</mark> , We  | sterly-W, North                       | -westerly- N-W.                       |                 |
| Aizawl- 384.87mm      |                                       |  | of deviation fr<br>Saiha- 307.40 n    |                                       | 236.00mm        |
| (430.2mm)             |                                       | (359.89mm)   | (507.71) (507.71                      |                                       | (428.1mm)       |
| Lawngtlai-291.20mm    |                                       |  | Mamit-204.87n                         | · · · · · · · · · · · · · · · · · · · | -411.72mm       |
| (453.1mm)             |                                       | 465.14mm)  | (442.80r                              | -                                     | (259.62mm)      |
| Weather summary       |                                       | · · · · · · · · · · · · · · · · · · ·  |                                       | 1 12 <sup>th</sup> July, 20           |                 |
| three day             | · · · · · · · · · · · · · · · · · · · | weather force  | July, 2                               |                                       | 17 10 10        |
| Maximum Tem. (°C):2   |                                       | There are chanc  |                                       |                                       | 11 during the   |
| Minimum Tem. (°C):1   |                                       |  |                                       | 0                                     | U               |
| Maximum RH (%):88-    |                                       | next 5 days. The   |                                       |                                       | -               |
| Minimum RH (%):74-3   | 0.00/                                 | the next 5 day   | <i>v u</i>                            |                                       |                 |
| Wind Direction: Sout  | hoostor!                              | Maximum relativ  | 0                                     |                                       | 0               |
| Cloud cover: Mainly o | loudy                                 | 100% and mini  | ~                                     |                                       |                 |
| Wind Speed: 2 km/hr   |                                       | would be easterl   | 5                                     | 2                                     | <b>_</b>        |
|                       | -                                     | km per hour. Ma  | unly cloudy sky                       | y will prevail du                     | iring the next  |
| Rainfall: 24.8 mm     |                                       | five days.   |                                       |                                       |                 |
|                       |                                       |  |                                       |                                       |                 |
|                       |                                       | Weekl  | <b>y cumulative</b> i                 | <b>rainfall: 62.0</b> 1               | mm              |
| NDVI for Mizoram      |                                       | North East Region 29 June 2017   | Moderately                            | wet mildly dr                         | y/mildly wet    |
|                       |                                       |  | conditions                            |                                       |                 |
|                       |                                       |  | oli / wet<br>rood<br>Moderate<br>Good |                                       |                 |
|                       |                                       | Agriculture vigour is good over most of the parts Northern As  | Very 4000                             |                                       |                 |
|                       |                                       | Agriculture vigour is good over most of the parts Northern As<br>Tripure and Meghaleye whereas moderate vigour is noticed in<br>of the region. | rest                                  |                                       |                 |
|                       |                                       |  | N                                     |                                       | 1   D o g o     |
|                       |                                       |  |                                       |                                       | 1   P a g e     |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



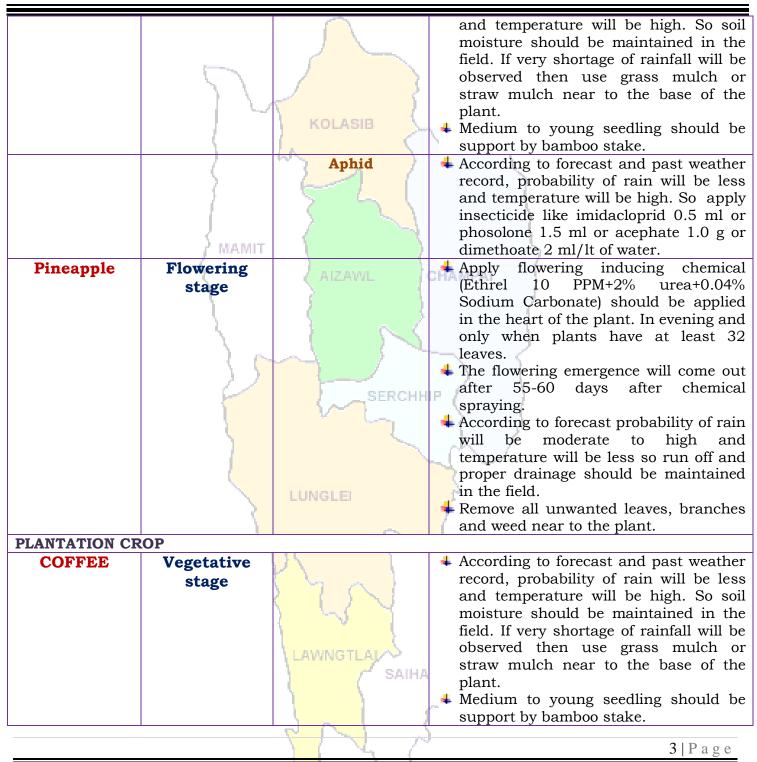
| Main Oran /   | Store                                   | Cultural           | Agriculture 1 / Henticulture 1 / optime 1   |
|---------------|---|--------------------|---|
| Main Crop/    | Stage                                   |                    | Agricultural / Horticultural / animal   |
| Animal        |   | practices/ Pest/   | husbandry advisories  |
| /Fisheries    |   | Diseases           |   |
| FRUITS CROPS  |   |                    |   |
| KHASI         | Seedling                                | 5                  | <b>4</b> According to forecast and past weather                                     |
| MANDARIN      | transplanting                           | KOLASIB            | record, probability of rain will be less  |
| AND ACID      | stage                                   |                    | and temperature will be high. So soil   |
| LIME          | ]                                       | in N               | moisture should be maintained in the  |
|               | (                                       | 1 1                | field. If very shortage of rainfall will be   |
| BANANA        | (                                       |                    | observed then use grass mulch or  |
|               | ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) |                    | straw mulch near to the base of the   |
|               | J                                       |                    | plant.  |
| STAR FRUIT    | A MAMIT                                 |                    | 4 Medium to young seedling should be  |
|               | (                                       |                    | support by bamboo stake.  |
| PLUM AND      | <u> </u>                                | AIZAWL             | In the citrus belt, trees can be planted  |
| PEACH         |   |                    | at any time; however, spring is the best time for container grown plants.           |
|               |   | - ς - <u>γ</u>     | 4 Standard-size trees should be spaced  |
|               |   |                    | 12 to 25 feet apart and dwarf trees   |
|               | ) 🔊                                     |                    | should be set 6 to 10 feet apart. The   |
|               | L \ \ \                                 |                    | exact distance depends on the variety.  |
|               |   | SERCHH             |   |
|               |   |                    | the distance.   |
|               |   |                    | <b>4</b> Use split dose of fertilizer for normal                                    |
|               |   |                    | growth and development.   |
|               |   | Gummosis, citrus   | According to forecast and past weather  |
|               |   | Canker, Citrus     | record, probability of rain will be less  |
|               |   | LUNgreening,       | fand temperature will be high. So   |
|               | 2                                       | Dieback, Lamon     | following pest problem will be high   |
|               | 1                                       | butterfly and leaf | <b>Lamon butterfly-</b> Spray monocrotophos   |
|               |   | n minor            | @0.04% @1.2 ml/lt of water.   |
|               |   |                    | <b>Leaf minor</b> - Spray confidor 0.05% (0.5                                       |
|               |   | 5 A C              | ml/lit of water) at each flush  |
|               |   |                    | emergence.  |
|               |   |                    | <b>Citrus Canker-</b> Apply bacterimycin  |
| Passion Fruit | Vogototino                              |                    | <ul> <li>@0.6 g/lt of water.</li> <li>Trail semi hard wood stem to bower</li> </ul> |
| rassion riuit | Vegetative<br>stage                     |                    | atmiatiira  |
|               | sidge                                   | / SAIHA            | Clean near the base of the plant.   |
|               |   |                    | According to forecast and past weather  |
|               |   |                    | record, probability of rain will be less  |
| L             |   |                    |   |
|               |   |                    | 2   P a g e   |



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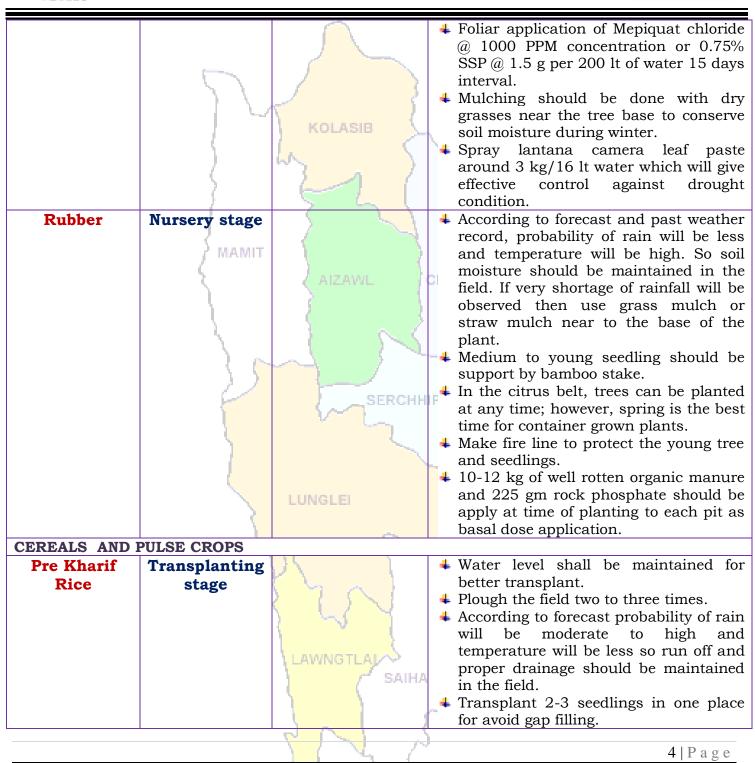




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|                 |                               | $\wedge$                                     | <ul> <li>Spacing should be 20 cm row to row and 15 cm plant to plant.</li> <li>Keep some seedlings in nursery or cormon of the field for gap filling.</li> </ul>  |
|-----------------|-------------------------------|--|---|
|                 |                               | Rice thrips and<br>rice leaf mites           | <ul> <li>corner of the field for gap filling.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility</li> </ul>   |
|                 |                               | 222  | <ul> <li>of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water<br/>or Imidachloroprid 1.5 ml/lt of water for<br/>effective control.</li> </ul>   |
| Jhum Rice       | Germination<br>stage<br>MAMIT | AIZAWL                                       | According to forecast probability of rain<br>will be moderate to high and<br>temperature will be less so run off and<br>proper drainage should be maintained<br>in the field.   |
|                 |                               |  | Don't use split dose of fertilizer for top dressing.  |
|                 | 25                            | Rice stem borer<br>and leaf folder<br>SERCHH | <ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul> |
| Maize<br>(Jhum) | Vegetative<br>stage           | LUNGLEI                                      | <ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> </ul>   |
| VEGETABLE CRO   | OP                            |  | 0   |
| Cowpea          | Vegetative<br>stage           | LAWNGTLAL                                    | <ul> <li>According to forecast probability of rain<br/>will be moderate to high and<br/>temperature will be less so run off and<br/>proper drainage should be maintained<br/>in the field.</li> </ul>   |
|                 |                               | SAIHA  | <ul> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower structure</li> </ul>  |
|                 |                               | Y X Z  | 5   P a g e   |



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



|               |                          |                 | 4 Clean near the base of the plant.                           |
|---------------|--------------------------|-----------------|---|
| Okra          | Vegetative               |                 | <ul> <li>According to forecast probability of rain</li> </ul> |
| UNIA          | •                        |                 | will be moderate to high and                                  |
|               | stage                    |                 | temperature will be less so run off and                       |
|               |                          | 5               | -   |
|               |                          |                 | proper drainage should be maintained in the field.            |
|               |                          | KOLASIB         |   |
|               |                          |                 | Don't use split dose of fertilizer for top                    |
|               |                          | W N             | dressing.   |
|               | (                        | 3 4 /           | 4 Trail semi hard wood stem to bower                          |
|               | 2                        |                 | structure   |
|               |                          | 2 5 6           | Clean near the base of the plant.                             |
|               |                          | Okra leafroller | 4 Apply insecticide like imidacloprid 0.5 ml or               |
|               | <pre> </pre>             |                 | phosolone 1.5 ml or acephate 1.0 g or                         |
|               | / MAMIT                  |                 | dimethoate 2 ml/lt of water.                                  |
| Ginger and    | Vegetative               | AIZAWL          | According to forecast probability of rain                     |
| turmeric      | stage                    | Concorrice .    | will be moderate to high and                                  |
|               |                          | 5               | temperature will be less so run off and                       |
|               |                          | 5               | proper drainage should be maintained                          |
|               | N 1                      |                 | in the field.   |
|               |                          |                 | Apply well decomposed FYM/ pig                                |
|               |                          |                 | manure @ 10-20 t/ha along with                                |
|               | 1                        |                 | 120:80:60 kg N, $P_2O_5$ and $K_2O/ha$                        |
|               |                          | SERCHH          | incorporate with soil for better                              |
|               |                          |                 | development.  |
| Colocasia     | Vegetat <mark>ive</mark> |                 | 4 According to forecast probability of rain                   |
|               | stage                    |                 | will be moderate to high and                                  |
|               |                          |                 | temperature will be less so run off and                       |
|               |                          | LUNCLEI         | proper drainage should be maintained                          |
|               | <u> </u>                 | LUNGLEI         | in the field.   |
|               |                          |                 | Apply well decomposed FYM/ pig                                |
|               |                          | ~ ~             | manure @ 10-20 t/ha along with                                |
|               | 1                        |                 | $120:80:60$ kg N, $P_2O_5$ and $K_2O/ha$                      |
|               |                          |                 | incorporate with soil for better                              |
|               |                          |                 | ) development.  |
| ANIMAL HUSBEN | IDARY                    |                 | · * •   |
| Pig           | All stages               | Y               | 4 As the weather gets colder, your pigs'                      |
| Ö             |                          |                 | energy requirement will increase, as                          |
|               |                          | LAWNGTLAL       | they need more energy to keep warm.                           |
|               |                          | / SAIHA         | ♣ Regularly monitor their level of 'fitness'                  |
|               |                          |                 | and increase their feed intake to                             |
|               |                          |                 | maintain.   |
|               | l                        | 2010            |   |
|               |                          |                 | 6   P a g e   |
|               |                          |                 |   |



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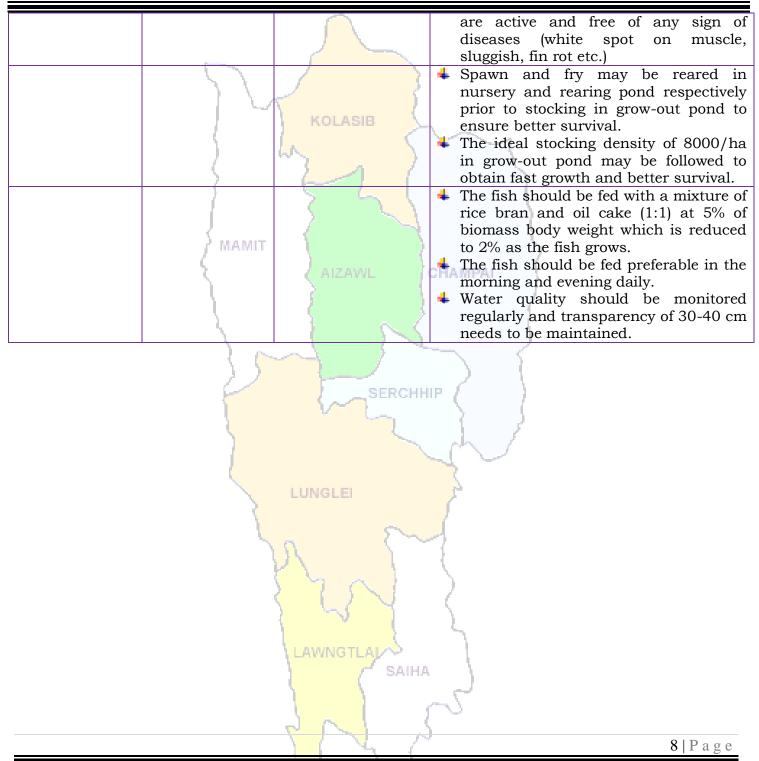
|         |                         | $\wedge$  | Fish oils are excellent for providing<br>slow-release energy with the added<br>advantage of a high level of omega-3.  |
|---------|-------------------------|---|---|
|         |                         | Porcine<br>Reproductive<br>Respiratory<br>Syndrome<br>(PRRS). | 1. Culling of positive pigs or piglets.   |
|         | Adult stage             | Swine fever.  | 2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval  |
| Cattle  | All age group           | AIZAWL  | <ul> <li>During either hot or heavy rainy condition, animal are advised to keep under shade.</li> <li>Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.</li> </ul> |
| Poultry | Litter<br>management    | LUNGLEI   | <ul> <li>Birds require adequate space, sufficient<br/>feed to meet their nutritional<br/>requirements and an adequate supply</li> </ul>   |
|         | Preventive<br>measures  | 0-3 rd week   | <ul> <li>Ranikhet Disease- F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> <li>B complex with antibodies</li> </ul>  |
|         |                         | 4 <sup>th</sup> weeks   | <b>Coccidiosis-</b> Amprolium or coccidiostat   |
|         |                         | 4-5 <sup>th</sup> Weeks                                       | <b>4</b> Calcium tonic fortified with B <sub>12</sub>   |
| FISHERY | Stocking and monitoring | SAIHA   | Healthy fish seed may be procured from<br>hatcheries for stocking in the pond. It<br>should be ensured that the fish seed   |
|         |                         |   | 7   P a g e   |



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



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V LAWNGTLA] SAIHA

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM

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



#### **District:** Champhai

#### Bulletin No: - 717/2017/ Bulletin/Mizo

Period: 12 July - 16 July, 2017

#### Date of issue: 11th July, 2017

|  | <u> </u>   | 1   |   |                                   |  |
|--|--|---|---|-----------------------------------|--|
| Parameters   | 12.07.2017   | 13.07.2017  | 14.07.2017  | 15.07.2017                        | 16.07.2017   |
| Rainfall (mm)  | 24   | 20  | 9   | 3                                 | 6  |
| Max Temp (°C)  | 29   | 26  | 29  | 29                                | 32   |
| Min Temp (°C)  | 23   | 23  | 24  | 24                                | 23   |
| Cloud Coverage   | Mainly cloudy  | Mainly cloudy   | Mainly cloudy   | Mainly cloudy                     | Partially clear  |
| Max RH (%)   | 98   | 98  | 98  | 99                                | 99   |
| Min RH (%)   | 75   | 62  | 74  | 87                                | 90   |
| Wind Speed (KmpH)  | 2  | 2   | 2   | 2                                 | 2  |
| *Wind Direction  | E  | S-E   | S-E   | S-E                               | S-E  |
|  | ly- <mark>S</mark> , South-W   | Easterly- <mark>N-E</mark> , Eas<br>Vesterly- <mark>S-W</mark> , We | sterly-W, North   | -westerly- N-W.                   |  |
| Aizawl- 384.87mm<br>(430.2mm)<br>Lawngtlai-291.20mm<br>(453.1mm)   | Champhai<br>(<br>Lunglei-  | - 105.48mm \$<br>(359.89mm)   | Saiha- 307.40 n<br>(507.7r<br>Mamit-204.87n<br>(442.80r | nm Kolasib-<br>nm)<br>nm Serchhip | 236.00mm<br>(428.1mm)<br>0-411.72mm<br>(259.62mm)                            |
| Weather summary of three day   | of the past  | 12 <sup>th</sup> July- 1  | · · · · · · · · · · · · · · · · · · ·                   | l7 chhunga s                      |  |
| Maximum Tem. (°C):2<br>Minimum Tem. (°C):1<br>Maximum RH (%):88-<br>Minimum RH (%):74-3<br>Wind Direction: Sout<br>Cloud cover: Mainly o<br>Wind Speed: 2 km/hr<br>Rainfall: 24.8 mm | <b>.8-20°C</b><br><b>.96%</b><br><b>source</b><br><b>tura beisei a ni. Khua a lum lai berin 26-32°C a ni ang</b><br><b>vawh lai ber in 23-24°C ni tura beisei a ni. RH san</b><br><b>berin of 98-100% leh a hniam lai berin 78-89% ni tur a</b><br><b>niin. Thli hi darkar khatah 2 km vela chakin chhaklam</b><br><b>cloudy</b> |   |   |                                   | a ni ang a. A<br>. RH san lai<br>% ni tur a rin<br>hhaklam awi<br>nga chhung |
| NDVI for Mizoram   |  | North East Region 29 Jane 2017                                      | al / wr<br>nod<br>Wry Good<br>Wry Good                  | wet mildly dr                     |  |
|  |  |   | ( ************************************                  |                                   | 1   Page   |



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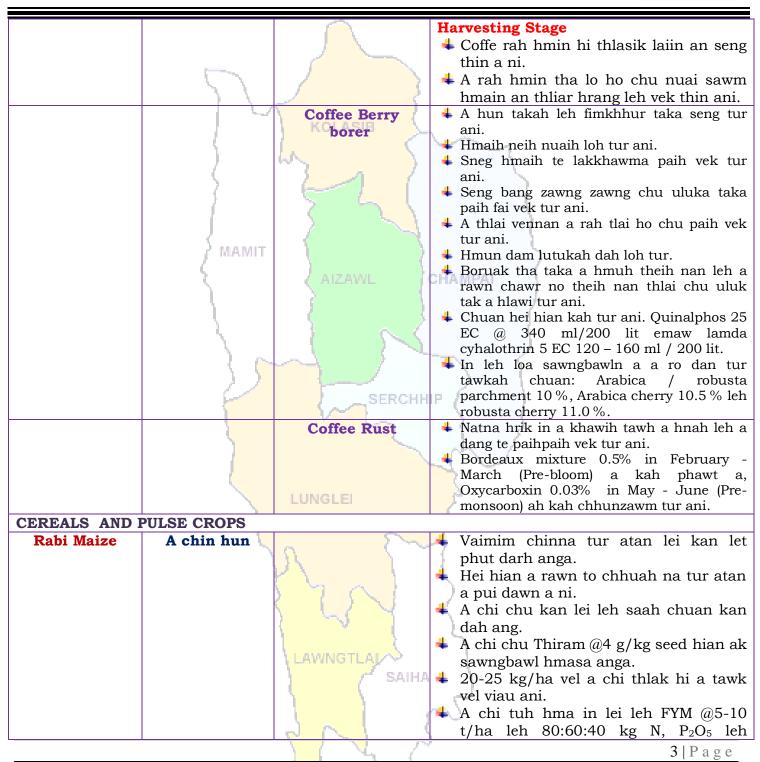
| Main Crop/    | Stage          | Cultural                | Agricultural / Horticultural/ animal   |
|---------------|----------------|-------------------------|--|
| Animal        |                | practices/ Pest/        | husbandry advisories   |
| /Fisheries    |                | Diseases                |  |
| FRUITS CROPS  |                |                         |  |
| KHASI         | A kui atanga 🖉 | 2                       | 🔸 Thlasik laia thlai bul khoro lutuk tur   |
| MANDARIN      | a seng hun     | KOLASIB                 | vennan chuan hnim hnah hring tlai bul  |
| AND ACID      | 3              | TOLADID >               | velah dahkhawm tur ani.  |
| LIME          |                | LA V                    | 4 Thlai naupang deuah chuan chawlh   |
|               | (              | 3 1                     | kar tin a tui pek thin tur ani.  |
| BANANA        |                |                         | Leia tha mamawh tawk a hmuh  |
|               |                |                         | theihna turin a hmunhma a hnim awm   |
|               |                |                         | te thlawhfai thin tur ani.   |
| STAR FRUIT    | A MAMIT        |                         | <b>4</b> A seng hma kar 6 chhung chu tui tha   |
|               | /              |                         | taka pek hian a rah tla tur chelh nan  |
| PLUM AND      | 2              | AIZAWL                  | leh a rah than that nan te leh a rah   |
|               | 1              |                         | keh tur lakah t a veng thei ani.   |
| PEACH         |                | Currie and a site       | Tomportum brigm bitula lab brigger   |
|               |                | Gummosis, citrus        | Temperture hniam lutuk leh hnawng vang<br>hian natna a a tam duh a . Soil bome natna |
|               |                | canker, citrus          | - laka vennan Bordeaux past hi thing zar leh   |
|               |                | greening and<br>Dieback | a trangah te hnawih tur ani.   |
|               |                |                         |  |
|               |                | Fruit fly RCHH          | rah tan tirin chawlhkar hnih chhung chu  |
|               |                |                         | heng te hian enkawl tur ani: carbaryl 0.2  |
|               |                |                         | percent emaw malathion 0.15 percent  |
|               |                |                         | suspension containing sugar or jeggery at  |
|               |                |                         | 10 g/l.  |
| PLANTATION CR |                |                         |  |
| COFFEE        | All stages     |                         | Nursery stage  |
|               |                | ~                       | + Thlai chi thlak hma in Azospirillum leh  |
|               |                | a (~~                   | Phosphobacterium a enkawl tur ani.   |
|               |                |                         | A chi hi December – January ah hmun  |
|               |                |                         | zawl/rualrem 1.5 - 2.5 cm a in hlatin  |
|               |                |                         | tlar mumal tak siam in chin tur ani.   |
|               |                |                         | Chuan a chi chu lei tlem te a chhilh a   |
|               |                |                         | buhpawla khuh tur ani.<br>Vitin tui pek tur ani a, a sat lutuka loh                  |
|               |                |                         | nan niin a chhun loh nan zar hliah tur   |
|               |                | / SAIHA                 |  |
|               |                |                         | $\stackrel{\text{ann.}}{\clubsuit}$ Ni 45 hnu velah a tiak thin a,chu chu            |
|               |                |                         | bag ah an sawn chhuak leh thin ani.  |
|               |                |                         | Sag an an sawn chindar ich thin alli.  |
|               |                |                         | <b>2</b>   <b>D</b> a g a  |
|               |                | <u>~_</u>               | 2   P a g e  |



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|  | 2                           |              | $K_2O/ha$ pawlh chu hman phawt tur a<br>ni. Nitrogen dose chanve chu a chi tuh<br>hunlaia hman tur a ni a, tichuan a<br>bang 25% chu thla khat hnu ah ani<br>ang a adang leh 25% chu a par hunah<br>hman tur a ni.   |
|--|-----------------------------|--------------|--|
| Soybean, pea,<br>lentil toria,<br>breen gram<br>and black<br>gram<br>cultivation in<br>rice fellow | All stage                   | Zero tillage | <ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>  |
| Potato<br>VEGETABLE CRO  | Sowing stage                | AIZAWL       | <ul> <li>Muangchang loving alu chin na tur<br/>chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin<br/>lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai<br/>taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah<br/>hmasak tur ani.</li> <li>A than a that theih nan nikhat danah<br/>tui pek thin tur ani.</li> </ul> |
| Tomato   | Bacterial<br>Blight disease |              | <ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .</li> </ul>  |
| Early Cole<br>crop   | Black spot<br>disease       | LAWNGTLAL    | <ul> <li>A than a that theih nan nikhat danah<br/>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula<br/>hnim ring vawm khawm hi tui pek</li> </ul>   |
|  |                             |              | 4   P a g e  |



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



| Onion and capsicum       Nursery stage       Poly house       A than a lam chi leh zikhlum lam chi reng reng enkawl nan Mancozel @ 2gm ah tui letter 1 pawlha kad tur ani.         Onion and capsicum       Nursery stage       Poly house       A than a that theih nan nikhat danal tui pek thin tur ani.         MAMIT       Athan a that theih nan nikhat danal tui pek twin tur ani.       Thiai bul yawn hnawn nana thiai bulk hnim ring yawm khawm hi tui pel zawhah dah tur ani.         MAMIT       Athan a that theih nan thiram 3g/kg seet to loh nan Pendimethalin @ 3.5ml h tui litter 1/zelah pawlh a kah hi a tha he ani.         Phytopthora blight       Phytopthora blight         Bight       A than a that theih nan tui pek thin tur ani.         French bean       Sowing stage         Carrot and radish       Sowing stage         LINGLE       A than a that theih nan nikhat danal tui pek thin tur ani.         LINGLE       A than a that theih nan nikhat danal tui pek hi at hah le ani.         Tui pek a hnihnah hringa khuh tur ani.       A than a that theih nan nikhat danal tui pek hin tur ani.         Garrot and radish       Sowing stage       A than a that theih nan nikhat danal tui pek hin tur ani.         LINGLE       A than a that theih nan nikhat danal tui pek hin tur ani.       A than a that theih nan hikhat danal tui pek hin tur ani.         Tui pek anal that hiai bul vawn hnawr na tur siam tur ani.       A than a that theih nan nikhat danal tui pek hin tur ani. </th <th></th> <th></th> <th></th> <th></th>  |             |               |                              |  |
|--|-------------|---------------|------------------------------|--|
| Onion and capsicum       Nursery stage       Poly house <ul> <li>A than a that theih nan nikhat danal tur ani.</li> <li>Thlai bul yawn hnawn nana thlai bul yawn hnawn yawn yawn thina, hei hi nana ya tur yani.         French bean       Sowing stage          <ul> <li>A than a that theih nan nikhat danal tui pek hin ur ani.</li> <li>Tui pek a hnihnah hringa khuh tur ani.</li> <li>A than a that theih nan nikhat danal tui pek thin tur ani.</li> <li>A than a that theih nan nikhat danal tui pek thin tur ani.</li> <li>A than a that theih nan nikhat danal tui pek thin tur ani.</li> <li>A than a that theih nan nikhat danal tui pek thin tur ani.</li> <li>A than a that theih nan nikhat danal tui pek thin tur ani.</li> <li>A than a that theih nan nikhat danal tui pek thin tur ani.</li> <li>A than a that theih nan nikhat danal tui pek thin tur ani.</li> <li>A than a that theih nan nikhat danal tui pek thin tur ani.</li> <li>A than a that theih nan nikhat danal tui pek thin tur ani.</li> <li>A than a that theih nan nikhat danal tui pek thin tur ani.</li> <li>A than a that theih nan nikhat danal tui pek hin tur ani.</li> </ul></li></ul>   |             |               | $\sim$                       | awm thin a , hei hi natna tlanglawn<br>ber ani.<br>4 Thlai hna lam chi leh zikhlum lam   |
| Onion and capsicum       Nursery stage       Poly house       A than a that theih nan nikhat danal tui pek thin tur ani.         IMAMIT       IMAMIT       Thai bul vawn hnawn nana thlai bul tui pel zawhah dah tur ani.       Thlai bul vawn hnawn nana thlai bul zawhah dah tur ani.         IMAMIT       IMAMIT       Imamit a that theih nan nikhat danal tui pek thin tur ani.         IMAMIT       Imamit a that theih nan nikhat danal tui pek thin tur ani.         Imamit a that theih nan thiram 3g/kg seed ni a tha hle ani.       Imamit a that theih nan thiram 3g/kg seed ni a tha hle ani.         French bean       Sowing stage       Imamit a that theih nan tui pek hma in lei rin pan hmasak tur ani.         Carrot and radish       Sowing stage       Imamit a that theih nan nikhat danal tui pek hma in lei rin pan hmasak tur ani.         A thar a that theih nan nikhat danal tui pek hma in lei rin pan hmasak tur ani.       A thar a that theih nan nikhat danal tui pek hma in lei rin pan hmasak tur ani.         Imamit a tur ani.       A thar a that theih nan nikhat danal tui pek hma in lei rin pan hmasak tur ani.         Imamit a kung bulah lei vur chhoh ze tur ani.       A thar a that theih nan nikhat danal tui pek hin tur ani.         Imamit a kung bulah lei vur chhoh ze tur ani.       Imamit a that theih nan nikhat danal tui pek hin tur ani.         Imamit a that theih nan nikhat danal tui pek hin tur ani.       Imamit a that theih nan nikhat danal tui pek hin tur ani.         Imamit a that theih nan nikhat thin dum a  |             | N             | { }                          | chi reng reng enkawl nan Mancozeb<br>@ 2gm ah tui leter 1 pawlha kah   |
| capsicum       Imamity of generation of the second se | <u> </u>    |               | I To fair land to fair I had |  |
| French bean       Sowing stage       Sowing stage       A than a that theil nan thirage khuh tur an a thar heil nan thirage khuh tur an a that heil nan thirage khuh tur an a that heil nan thirage khuh tur an a that heil nan thirek a 1% Bordeaux chawhpawll emaw 2 g captan emaw 3 cope oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha he ani.         Carrot and radish       Sowing stage       Image: Sowing stage         Image: Sowing stage       Image: Sowing stage       Image: Sowing stage         Image: Sowing stage       Image: Sowing stage       Image: Sowing stage         Image: Sowing stage       Image: Sowing stage       Image: Sowing stage   |             | Nursery stage | Poly house                   | tui pek thin tur ani.<br>Thlai bul vawn hnawn nana thlai bula  |
| Carrot and radish       Sowing stage       French bean       French bean       Sowing stage       French bean       Sowing stage       French bean       French bean       Sowing stage       French bean       French bean       Sowing stage       French bean       French bean       French bean       Sowing stage       French bean       French bean       French bean       French bean       Sowing stage       French bean       French bean <td< th=""><th></th><th>1</th><th>3 24</th><th>zawhah dah tur ani.</th></td<>  |             | 1             | 3 24                         | zawhah dah tur ani.  |
| blightblightemaw Trichoderma viride 4g+ metalaxyl 4g<br>(Apron)/ kg seed hi a tha hle aniFrench beanSowing stageemaw 2 g captan emaw 3 coppe<br>oxychloride a tui liter 1 hi 10-15 DAS apek hi a tha hle ani.French beanSowing stageTui pek a hnihnah hringa khuh tur an<br>a. than a that theih nan tui pek hma<br>in lei rin pan hmasak tur ani.Carrot and<br>radishSowing stageA than a that theih nan nikhat danah<br>tui pek thin tur ani.Carrot and<br>radishSowing stageA than a that theih nan nikhat danah<br>tui pek thin tur ani.Carrot and<br>radishSowing stageA than a that theih nan nikhat danah<br>tui pek thin tur ani.Carrot and<br>radishSowing stageA than a that theih nan nikhat danah<br>tui pek hin ur ani.Carrot and<br>   |             | { MAMIT       | AIZAWL                       | tui liter 1 zelah pawlh a kah hi a tha<br>CHA hle ani.   |
| French beanSowing stageEmail of the second stateEmail of the second stateFrench beanSowing stageImage of the second stateTui pek a hnihnah hringa khuh tur an a bek hni at the hnan tui pek hma in lei rin pan hmasak tur ani.Carrot and radishSowing stageImage of the second stateCarrot and radishSowing stageA than a that the hnan nikhat danah tui pek thin tur ani.LAWNGTLALA than a that the hnan nikhat danah tui pek thin tur ani.Tui pek hnuah thlai bul vawn hnawr na tur siam tur ani.Tui pek hnuah thlai bul vawn hnawr na tur siam tur ani.Zikhlum lam chi ah chuan sik lef sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.Thai hna lam chi leh zikhlum lam chi reng reng enkawl nar Mancozeb @ 2gm ah tui leter   |             | l l           |                              | emaw Trichoderma viride 4g+ metalaxyl 4g<br>(Apron)/ kg seed hi a tha hle ani  |
| Carrot and<br>radishSowing stageA than duna theih nan tui pek hma<br>in lei rin pan hmasak tur ani.Carrot and<br>radishSowing stageA than duna theih nan nikhat danah<br>tui pek thin tur ani.Carrot and<br>radishSowing stageA than a that theih nan nikhat danah<br>tui pek thin tur ani.Carrot and<br>  |             | 35            |                              | emaw 2 g captan emaw 3 copper<br>oxychloride a tui liter 1 hi 10-15 DAS a  |
| Carrot and radish       Sowing stage       A than a that theih nan nikhat danah tui pek thin tur ani.         Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.       Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.         Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.       Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nar chi reng reng enkawl nar  | French bean | Sowing stage  |                              | A than duna theih nan leh hnim to loh<br>na turin a kung bulah lei vur chhoh zel   |
| LAWNGTLAI       rawn awm thina, hei hi natna         SAIHA       rawn awm thina, hei hi natna         Mancozeb @ 2gm ah tui leter 1  |             | Sowing stage  | 2.5                          | <ul> <li>A than a that theih nan nikhat danah<br/>tui pek thin tur ani.</li> <li>Tui pek hnuah thlai bul vawn hnawn</li> </ul> |
| SAIHA chi reng reng enkawl nar<br>Mancozeb @ 2gm ah tui leter 1  |             |               |                              |  |
|  |             |               |                              | chi reng reng enkawl nan<br>Mancozeb @ 2gm ah tui leter 1  |
| 5 Page   |             |               |                              | <b>5</b>   <b>D</b> o o o  |

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM



| ANIMAL HUSBE | ENDARY               |   |   |
|--------------|----------------------|---|---|
| Pig          | All stages           | KOLASIB   | <ul> <li>Khua a vawh hian vawk hian an mahni<br/>in tih lumna tur atan chakna an<br/>mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah<br/>renga, a chaw ei tur tlem tlema tih tam<br/>hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam<br/>em a vangin an chakna muangchanga<br/>a in siam chhoh zel theih nan a tha hle<br/>ani.</li> </ul> |
|              | MAMIT                | Porcine<br>Reproductive<br>Respiratory<br>Syndrome<br>(PRRS). | 1. Vawknote emaw vawk lak hran.   |
|              | Adult stage          | Swine fever.  | 2. SF vaccines hi thla 2 hnua pek tur ani a,<br>chumi hnuah chuan kumtin thlaruk<br>danah pek chhunzawm tur ani.  |
| Cattle       | All age group        | SERCHH  | • Hun rei tak khua a ro avanga hnim<br>hnah hring peh tur a awm loh laia  |
|              | All age group        | Foot and Mouth<br>Disease (FMD)                               | • Kar 16 hnuah FMD vaccine pek a,<br>chuan thla tin thla 6 chhung<br>chhunzawm tur ani.   |
|              | Young stage          | Black Quarter<br>(BQ)   | <ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah<br/>emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum<br/>tin pek tur ani.</li> </ul>  |
| Poultry      | Litter<br>management | LAWNGTLAL   | <ul> <li>Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.</li> <li>An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.</li> </ul>   |
|              |                      | C C C   | <b>6</b>   P a g e  |



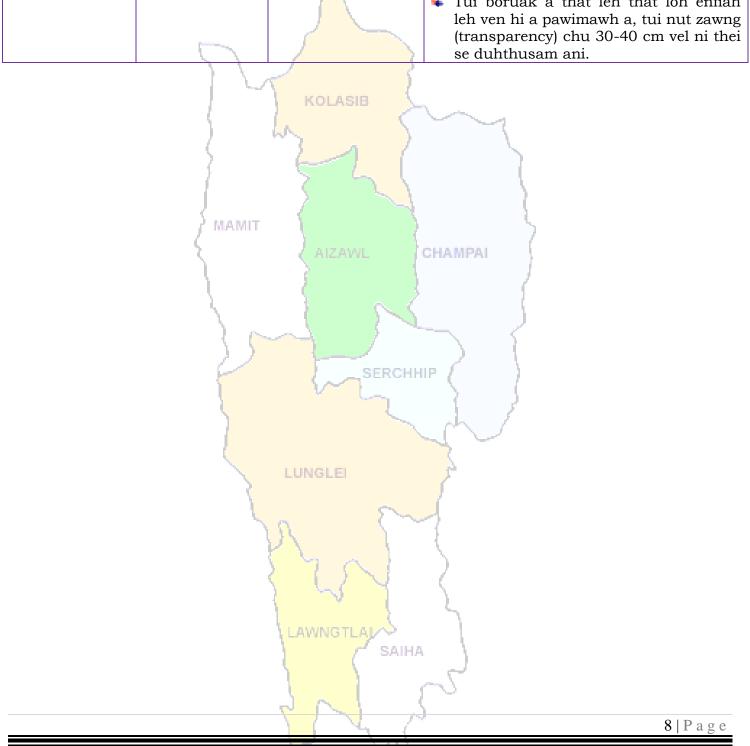
ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



| ICAR    |  |  |   |
|---------|--|--|---|
|         | Preventive   | 0-3 rd week                                      | <ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> <li>Ranikhet Disease- an pian atanga ni</li> </ul>  |
|         | measures   | 222  | <ul> <li>1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R<sub>2</sub>B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>   |
|         | AMAMIT   | 4 <sup>th</sup> weeks<br>4-5 <sup>th</sup> Weeks | <ul> <li>Coccidiosis- Amprolium or coccidiostat</li> <li>Calcium tonic fortified with B<sub>12</sub></li> </ul>   |
| FISHERY |  | AIZAWL   | CHAMPAI   |
|         | Stocking and<br>monitoring<br>(Sangha<br>chhuah leh<br>enkawl) | SERCHI   | <ul> <li>Dila chhuah turin sangha no te hrisel<br/>tha hatchery atangin lei tur ani.<br/>Sangha note harh tha deuh leh natna<br/>(taksa var, harhlo, pangparh hmawr<br/>tawih) veilo tih hriat chian lei hram<br/>tum tur ani .</li> <li>Sangha note piang hlim (Spawn) leh a<br/>mit lawk (fry) te chu dam khawchhuak</li> </ul> |
|         |  |  | <ul> <li>(puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha.</li> <li>Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih</li> </ul>                     |
|         |  | LawngtLau  | <ul> <li>ani.</li> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur.</li> <li>Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.</li> </ul>   |
|         |  |  | 710000  |
|         |  |  | 7   P a g e   |





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#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



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V LAWNGTLA] SAIHA

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R RESEARCH COMPLEX FOR NEH REGION ICA

Mizoram Centre, Kolasib- 796081, MIZORAM

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



### **District:** Kolasib

Bulletin No: - 717/2017/ Bulletin/English

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

| Parameters              | 12.07.2017     | 13.07.2017   | 14.07.2017                   | 15.07.2017                             | 16.07.2017             |
|-------------------------|----------------|--|------------------------------|--|------------------------|
|                         |                |  |                              |  |                        |
| Rainfall (mm)           | 24             | 9  | 6                            | 3                                      | 0                      |
| Max Temp (°C)           | 29             | 26   | 30                           | 30                                     | 32                     |
| Min Temp (°C)           | 23             | 23   | 24                           | 24                                     | 23                     |
| Cloud Coverage          | Mainly cloudy  | Mainly cloudy  | Mainly cloudy                | Mainly cloudy                          | Partially clear        |
| Max RH (%)              | 100            | 99   | 100                          | 99                                     | 98                     |
| Min RH (%)              | 84             | 96   | 88                           | 91                                     | 73                     |
| Wind Speed (KmpH)       | 2              | 2  | 0                            | 2                                      | 2                      |
| *Wind Direction         | N-E            | S-E  | E                            | S-E                                    | E                      |
|                         |                | Easterly- <mark>N-E</mark> , Eas   |                              |  |                        |
|                         |                | /esterly- <mark>S-W</mark> , We  |                              |  |                        |
| STATUS OF MONSO         | OON- April 1-3 | 0, 2017 (Percent   | of deviation fr              | om normal in p                         | arenthesis)            |
| <b>Aizawl-</b> 384.87mm | Champhai       | - 105.48mm 💦 🗧   | <mark>Saiha-</mark> 307.40 n | nm Kolasib-                            | 236.00mm               |
| (430.2mm)               |                | (359.89mm)   | (507.7r                      | nm)                                    | (428.1mm)              |
| Lawngtlai-291.20mm      | Lunglei-       | 326.00mm   | <mark>Mamit-204.87n</mark>   | <mark>ım Serch</mark> hip              | -411.72mm              |
| (453.1mm)               | (              | 465.14mm)  | (442.80r                     | nm)                                    | (259.62mm)             |
| Weather summary of      | of the past    | Weather fored  | cast valid fron              | 1 12 <sup>th</sup> July, 20            | 17 To 16 <sup>th</sup> |
| three day               | s              |  | July, 2                      | 017.                                   |                        |
| Maximum Tem. (°C):2     | 8-29°C         | There are chanc  |                              |  | ll during the          |
| Minimum Tem. (°C):2     |                | next 4 days. The   |                              |  |                        |
| Maximum RH (%):83-      |                | the next 5 day   |                              |  | -                      |
| Minimum RH (%):72-3     | 0.40/          | Maximum relativ  | 5 0                          |  |                        |
| Wind Direction: Sout    | hoostor!       |  | 2                            | -                                      | U                      |
| Cloud cover: Mainly o   | loude          | 100% and mini  | 0                            |  |                        |
| Wind speed: 2-4 km/     | hr             | would be north   |                              |  |                        |
| -                       | Ś              | southeasterly an   | •                            | -                                      |                        |
| Rainfall: 29.0 mm       |                | per hour. Mainl  | y cloudy sky v               | will prevail dui                       | ring the next          |
|                         | t              | five days.   |                              |  |                        |
|                         |                |  |                              |  |                        |
|                         |                | Weekl  | y cumulative                 | rainfall: 42.0 1                       | mm                     |
| NDVI for Mizoram        |                | North East Region 29 June 2017   |                              | wet mildly dr                          |                        |
|                         |                | and a second sec | conditions                   | ······································ | <i>yyy</i>             |
|                         |                | - 0.2 bare sol / wo<br>background<br>0.2-0.3 ] Modera  |                              |  |                        |
|                         |                | 0.3-0.4 J<br>0.4-0.5 ] Good  |                              |  |                        |
|                         |                | ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩  | od                           |  |                        |
|                         |                | Agriculture vigour is good over most of the parts Northern Assam<br>Tripura and Meghalaya whereas moderate vigour is noticed in rest<br>of the region.   |                              |  |                        |
|                         |                |  |                              |  |                        |
|                         |                | N N  | 17                           |  | 1   Page               |



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

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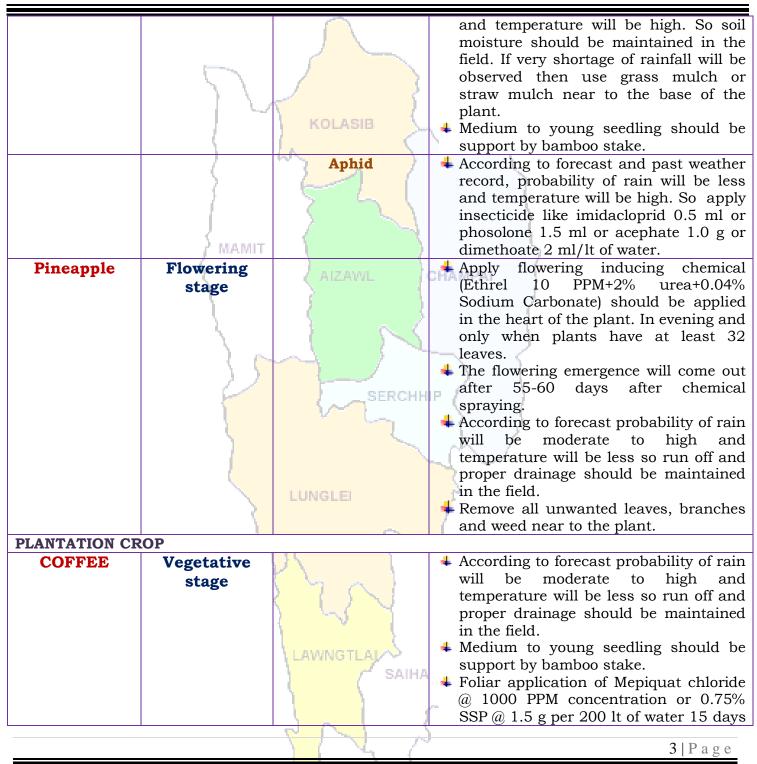
| Main Oran I   | Other sta                               | 0141                           |  |
|---------------|---|--------------------------------|--|
| Main Crop/    | Stage                                   | Cultural                       | Agricultural / Horticultural / animal                                |
| Animal        |   | practices/ Pest/               | husbandry advisories   |
| /Fisheries    |   | Diseases                       |  |
| FRUITS CROPS  |   |                                |  |
| KHASI         | Seedling                                | 5                              | <b>4</b> According to forecast and past weather                      |
| MANDARIN      | transplanting                           | KOLASIB                        | record, probability of rain will be less                             |
| AND ACID      | stage                                   |                                | and temperature will be high. So soil                                |
| LIME          | J                                       | in N                           | moisture should be maintained in the                                 |
|               | (                                       | 1 1                            | field. If very shortage of rainfall will be                          |
| BANANA        | 1                                       |                                | observed then use grass mulch or                                     |
|               | ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) |                                | straw mulch near to the base of the                                  |
|               |   |                                | plant.   |
| STAR FRUIT    | A MAMIT                                 |                                | 4 Medium to young seedling should be                                 |
|               | 1 10050011                              |                                | support by bamboo stake.   |
| PLUM AND      |   | AIZAWL I                       | □ ↓ In the citrus belt, trees can be planted                         |
|               | l l                                     |                                | at any time; however, spring is the best                             |
| PEACH         | 1                                       |                                | time for container grown plants.                                     |
|               |   |                                | <b>4</b> Standard-size trees should be spaced                        |
|               |   |                                | 12 to 25 feet apart and dwarf trees                                  |
|               |   |                                | should be set 6 to 10 feet apart. The                                |
|               | 1                                       |                                | exact distance depends on the variety.                               |
|               |   | SERCHH                         |  |
|               |   |                                | the distance.  |
|               |   |                                | <b>4</b> Use split dose of fertilizer for normal                     |
|               |   | 0                              | growth and development.  |
|               |   | Gummosis, citrus               | According to forecast and past weather                               |
|               |   | Canker, Citrus                 | record, probability of rain will be less                             |
|               |   | LUNgreening,<br>Dieback, Lamon | and temperature will be high. So following pest problem will be high |
|               |   | butterfly and leaf             | Lamon butterfly- Spray monocrotophos                                 |
|               |   | minor                          | a $a$ $a$ $a$ $a$ $a$ $a$ $a$ $a$ $a$                                |
|               |   |                                | Leaf minor- Spray confidor 0.05% (0.5                                |
|               |   |                                | ml/lit of water) at each flush                                       |
|               |   |                                | emergence.   |
|               |   |                                | <b>4</b> Citrus Canker- Apply bacterimycin                           |
|               |   | Y I                            | @0.6 g/lt of water.  |
| Passion Fruit | Vegetative                              |                                | <b>4</b> Trail semi hard wood stem to bower                          |
|               | stage                                   |                                | atmiating  |
|               | Ŭ                                       | C SAIHA                        | 4 Clean near the base of the plant.                                  |
|               |   |                                | 4 According to forecast and past weather                             |
|               |   |                                | record, probability of rain will be less                             |
|               | -                                       |                                | )  |
|               |   |                                | 2   P a g e  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM



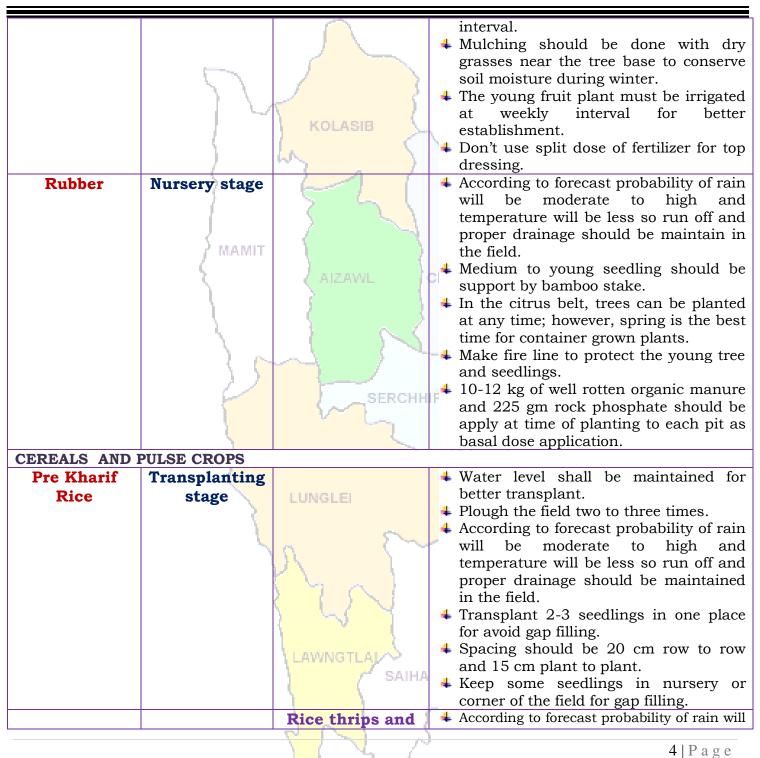




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|                          | 5                    | rice leaf mites                              | <ul> <li>be moderate to high and temperature will<br/>be less and humidity will high so possibility<br/>of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water<br/>or Imidachloroprid 1.5 ml/lt of water for<br/>effective control.</li> </ul>   |
|--------------------------|----------------------|--|--|
| Jhum Rice                | Germination<br>stage | KOLASIB                                      | <ul> <li>According to forecast probability of rain<br/>will be moderate to high and<br/>temperature will be less so run off and<br/>proper drainage should be maintained<br/>in the field.</li> <li>Don't use split dose of fertilizer for top<br/>dressing.</li> </ul>  |
|                          | MAMIT                | Rice stem borer<br>and leaf folder<br>AIZAWL | <ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul>  |
| Maize<br>( <i>Jhum</i> ) | Vegetative<br>stage  | SERCHH                                       | <ul> <li>According to forecast probability of rain<br/>will be moderate to high and<br/>temperature will be less so run off and<br/>proper drainage should be maintained<br/>in the field.</li> <li>Don't use split dose of fertilizer for top<br/>dressing.</li> </ul>  |
| <b>VEGETABLE CRO</b>     | OP                   |  |  |
| Cowpea                   | Vegetative<br>stage  |  | <ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower structure</li> <li>Clean near the base of the plant.</li> </ul> |
| Okra                     | Vegetative<br>stage  | SAIHA  | <ul> <li>According to forecast probability of rain<br/>will be moderate to high and<br/>temperature will be less so run off and<br/>proper drainage should be maintained</li> </ul>  |
|                          |                      | The second                                   | <b>5</b>   P a g e   |



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| Ginger and<br>turmeric | Vegetative<br>stage<br>MAMIT | Okra leafroller<br>AIZAWL | <ul> <li>in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower structure</li> <li>Clean near the base of the plant.</li> <li>Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha</li> </ul> |
|------------------------|------------------------------|---------------------------|---|
| Colocasia              | Vegetative<br>stage          | LUNGLEI                   | <ul> <li>incorporate with soil for better development.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and</li> </ul>   |
| ANIMAL HUSBEN          | IDARY                        |                           | -   |
| Pig                    | All stages                   |                           | <ul> <li>As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.</li> <li>Regularly monitor their level of 'fitness' and increase their feed intake to maintain.</li> <li>Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.</li> <li>Culling of positive pigs or piglets.</li> </ul>   |
|                        |                              | <b>Reprodu</b> ctive      | $\sim$  |
|                        |                              | 5777                      | <b>6</b>   P a g e  |



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



| ICAR     |               |                         |  |
|----------|---------------|-------------------------|--|
|          |               | Respiratory             |  |
|          |               | Syndrome                |  |
|          |               |                         |  |
|          |               | (PRRS).                 |  |
|          | Adult stage   | Swine fever.            | 2. Vaccination of pigs with SF vaccines at 2                                     |
|          |               |                         | months and yearly interval/6 month   |
|          |               | KOLASIB                 | interval   |
| Cattle   | All age group |                         | <b>U</b> uring either hot or heavy rainy   |
|          |               | LAN N                   | condition, animal are advised to keep  |
|          |               | 13 4 /                  | under shade.   |
|          | 1 7           |                         | <b>4</b> Vaccination is mandatory for the cattle                                 |
|          |               |                         | prior to monsoon to protect from   |
|          |               |                         | disease like Anthrax, Black Quarter,   |
|          | 1             |                         | Foot Mouth Disease, Duck Plague.   |
| Poultry  | Litter        |                         | ♣ Birds require adequate space, sufficient                                       |
| - ourory | management    | 517 514U                | feed to meet their nutritional   |
|          | management    | AIZAWL                  | requirements and an adequate supply  |
|          |               |                         | of good-quality water.   |
|          |               | 5                       | Good management and sanitation are   |
|          |               |                         | the best ways to avoid infectious  |
|          |               |                         | disease in poultry.  |
|          |               |                         | <ul> <li>Provide ample quantity of clean</li> </ul>                              |
|          |               |                         |  |
|          |               | SERCHH                  | <ul> <li>drinking water.</li> <li>Avoid feeding of mouldy feed. Don't</li> </ul> |
|          |               |                         |  |
|          |               |                         | make sudden changes in feed  |
|          | Preventive    | 0-3 rd week             | <b>4</b> Ranikhet Disease- F1 vaccine at (1-6)                                   |
|          | measures      |                         | days of birth and $R_2B$ vaccine for adult                                       |
|          |               |                         | birds.   |
|          |               | LUNGLEI                 | B complex with antibodies  |
|          |               | 4 <sup>th</sup> weeks   | <b>Coccidiosis</b> - Amprolium or  |
|          |               | 5                       | coccidiostat   |
|          |               | 4-5 <sup>th</sup> Weeks | 4 Calcium tonic fortified with B <sub>12</sub>                                   |
| FISHERY  |               |                         |  |
|          | Stocking and  |                         | + Healthy fish seed may be procured from   |
|          | monitoring    |                         | hatcheries for stocking in the pond. It  |
|          | monitoring    |                         | should be ensured that the fish seed   |
|          |               |                         | are active and free of any sign of   |
|          |               |                         | diseases (white spot on muscle   |
|          |               | / SAIHA                 | sluggish, fin rot etc.)  |
|          |               |                         | Spawn and fry may be reared in   |
|          |               |                         | nursery and rearing pond respectively  |
|          |               |                         |  |
|          |               | N.A                     | 7   P a g e  |
|          |               |                         | 1 1 4 5 0  |

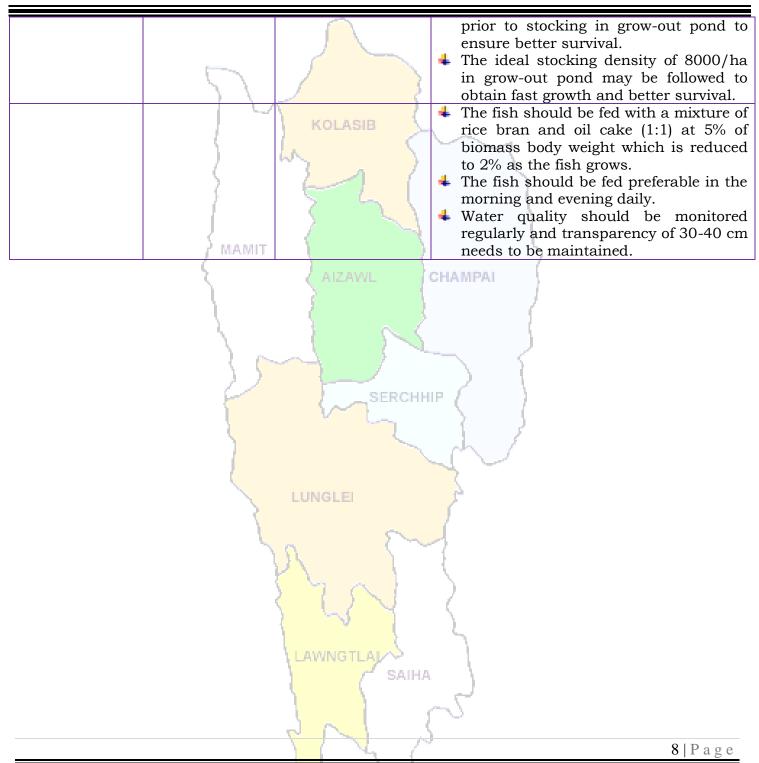
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Mizoram Centre, Kolasib- 796081, MIZORAM







### **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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V LAWNGTLA] SAIHA

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



### **District: Kolasib**

| <b>Bulletin</b> No | - | 717/2017/ Bulleti  | n/Mizo |
|--------------------|---|--|--------|
|                    |   | the second s |        |

Period: 12 July - 16 July, 2017

Date of issue: 11<sup>th</sup> July, 2017

| Parameters            | 12.07.2017                            | 13.07.2017  | 14.07.2017                  | 15.07.2017                            | 16.07.2017       |
|-----------------------|---------------------------------------|---|-----------------------------|---------------------------------------|------------------|
| Rainfall (mm)         | 24                                    | 9   | б                           | 3                                     | 0                |
| Max Temp (°C)         | 29                                    | 26  | 30                          | 30                                    | 32               |
| Min Temp (°C)         | 23                                    | 23  | 24                          | 24                                    | 23               |
| Cloud Coverage        | Mainly cloudy                         | Mainly cloudy   | Mainly cloudy               | Mainly cloudy                         | Partially clear  |
| Max RH (%)            | 100                                   | 99  | 100                         | 99                                    | 98               |
| Min RH (%)            | 84                                    | 96  | 88                          | 91                                    | 73               |
| Wind Speed (KmpH)     | 2                                     | 2   | 0                           | 2                                     | 2                |
| *Wind Direction       | N-E                                   | S-E   | Е                           | S-E                                   | E                |
| Northe                | rly- N, North-                        | Easterly- <mark>N-E</mark> , Eas  | sterly- E, South            | -Easterly- <mark>S-E</mark> ,         | •                |
|                       |                                       | Vesterly- <mark>S-W</mark> , We   |                             |                                       |                  |
| STATUS OF MONSO       | OON- April 1-3                        | 0, 2017 (Percent  | of deviation fr             | om normal in p                        | arenthesis)      |
| Aizawl- 384.87mm      | · · · · · · · · · · · · · · · · · · · |   | Saiha- 307.40 n             | nm Kolasib-                           | 236.00mm         |
| (430.2mm)             |                                       | (359.89mm)  | (507.7n                     | · · · · · · · · · · · · · · · · · · · | (428.1mm)        |
| Lawngtlai-291.20mm    |                                       |   | <mark>Mamit-204.87</mark> n | -                                     | -411.72mm        |
| (453.1mm)             |                                       | ( <b>465.14mm</b> )   | (442.80n                    |                                       | (259.62mm)       |
| Weather summary of    | •                                     | $12^{\text{th}}$ July- 1  | 6 <sup>th</sup> July, 201   | l <b>7 chhung</b> a s                 | sik leh sa       |
| three day             | s                                     |   | dinhmun tu                  |                                       |                  |
| Maximum Tem. (°C):2   | 28-29°C                               | Tun ni 4 chhun  |                             |                                       | ui tla miahlo    |
| Minimum Tem. (°C):2   |                                       | tura beisei a ni. I   | 0                           |                                       |                  |
| Maximum RH (%):83-    | /                                     | vawh lai ber in   |                             |                                       | 0                |
| Minimum RH (%):72-    | 84%                                   | berin 99-100% 1   |                             |                                       |                  |
| Wind Direction: Sout  | heasterly                             | niin. Thli hi dar   |                             |                                       |                  |
| Cloud cover: Mainly o | cloudy                                | awi zawngin a tle   |                             |                                       |                  |
| Wind speed: 2-4 km/   | nr                                    | hian khawthiang   |                             | 01                                    | i liga cilitulig |
|                       | · · · · · · · · · · · · · · · · · · · | man Knawtmang   | , lak illiuli Del           | sei a 111.                            |                  |
| Rainfall: 29.0 mm     |                                       | Weekl   | u oumulativo                | rainfall: 42.0r                       |                  |
|                       |                                       | WEEKI   | y cumulalive                | rungun. <del>4</del> 2.01             |                  |
| NDVI for Mizoram      |                                       |   | Moderately                  | wet mildly dr                         | w/mildly wet     |
|                       |                                       | North East Region 29 June 2017  | conditions                  | wet minuty ui                         | y/minury wet     |
|                       |                                       |   | oil/wet                     |                                       |                  |
|                       |                                       |   | Moderate                    |                                       |                  |
|                       |                                       | 0.5-0.6<br>0.6-0.7<br>>0.7  | Very Good                   |                                       |                  |
|                       |                                       | Agriculture vigour is good over most of the parts Northern Ass<br>Tripura and Meghalaya whereas moderate vigour is noticed in 1 | am                          |                                       |                  |
|                       |                                       | of the region.  |                             |                                       |                  |
|                       |                                       |   | 14                          |                                       | 1 D              |
|                       |                                       |   | C                           |                                       | 1   Page         |



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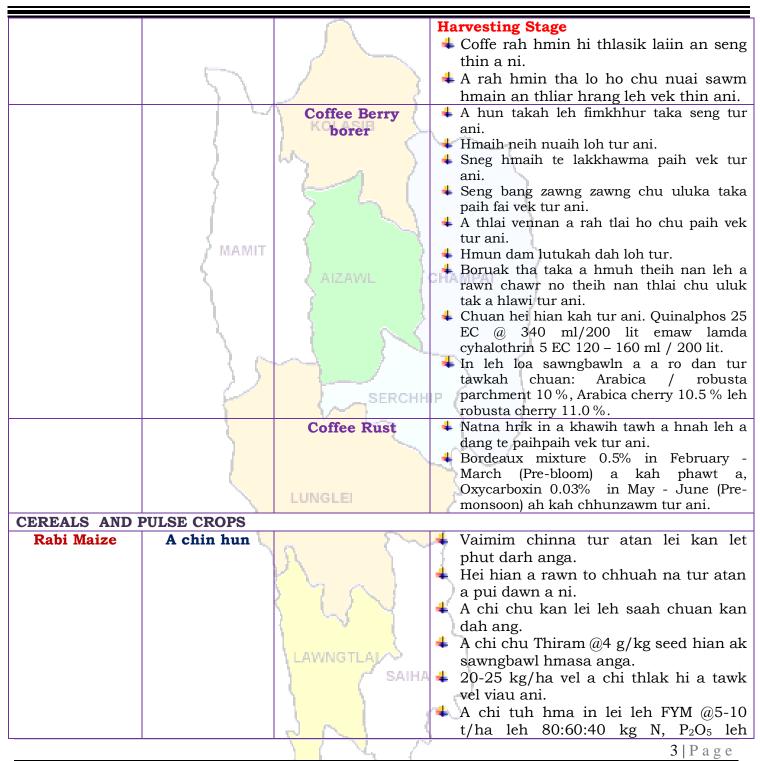
| Main Crop/        | Stage   | Cultural         | Agricultural / Horticultural/ animal   |
|-------------------|---|------------------|--|
| Animal            |   | practices/ Pest/ | husbandry advisories   |
| /Fisheries        |   | Diseases         |  |
| FRUITS CROPS      |   | •                |  |
| KHASI             | A kui atanga 🖉  | -                | 🔸 Thlasik laia thlai bul khoro lutuk tur   |
| MANDARIN          | a seng hun  | KOLASIB          | vennan chuan hnim hnah hring tlai bul  |
| AND ACID          | 3   |                  | velah dahkhawm tur ani.  |
| LIME              |   | LA V             | 4 Thlai naupang deuah chuan chawlh   |
|                   | (   | 3 1              | kar tin a tui pek thin tur ani.  |
| BANANA            |   |                  | Leia tha mamawh tawk a hmuh  |
|                   |   |                  | theihna turin a hmunhma a hnim awm   |
|                   |   |                  | te thlawhfai thin tur ani.   |
| <b>STAR FRUIT</b> | AMAMIT  |                  | 4 A seng hma kar 6 chhung chu tui tha  |
|                   | E MAMIT   |                  | taka pek hian a rah tla tur chelh nan  |
|                   | 2   | AIZAWL           | leh a rah than that nan te leh a rah   |
| PLUM AND          |   |                  | keh tur lakah t a veng thei ani.   |
| PEACH             |   |                  |  |
|                   | λ.  | Gummosis, citrus | <b>4</b> Temperture hniam lutuk leh hnawng vang  |
|                   | \     \ | canker, citrus   | hian natna a a tam duh a . Soil bome natna<br>— laka vennan Bordeaux past hi thing zar leh |
|                   |   | greening and     | a trangah te hnawih tur ani.   |
|                   |   | Dieback          |  |
|                   |   | Fruit fly RCHH   | Huan zau takah chuan a par tan tirh leh a  |
|                   |   | V~ L             | rah tan tirin chawlhkar hnih chhung chu<br>heng te hian enkawl tur ani: carbaryl 0.2       |
|                   |   |                  | percent emaw malathion 0.15 percent  |
|                   |   |                  | suspension containing sugar or jeggery at  |
|                   |   |                  | 10 g/l.  |
| PLANTATION CR     | OP  | •                | · · · · · · · · · · · · · · · · · · ·  |
| COFFEE            | All stages  | LONGLEI          | Nursery stage  |
|                   | J J   |                  | 🖊 Thlai chi thlak hma in Azospirillum leh  |
|                   | 1   | ≥~~              | Phosphobacterium a enkawl tur ani.   |
|                   |   |                  | 🔰 A chi hi December – January ah hmun  |
|                   |   | V                | 🔪 zawl/rualrem 1.5 - 2.5 cm a in hlatin  |
|                   |   | $\gamma \sim 1$  | ) tlar mumal tak siam in chin tur ani.   |
|                   |   |                  | Chuan a chi chu lei tlem te a chhilh a   |
|                   |   |                  | buhpawla khuh tur ani.   |
|                   |   |                  | 4 Nitin tui pek tur ani a, a sat lutuka loh  |
|                   |   |                  | nan niin a chhun loh nan zar hliah tur   |
|                   |   | SAIHA            |  |
|                   |   |                  | ♣ Ni 45 hnu velah a tiak thin a,chu chu  |
|                   |   | 1                | bag ah an sawn chhuak leh thin ani.  |
|                   |   |                  | )  |
|                   |   |                  | 2   P a g e  |



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|  | 2                           |              | K <sub>2</sub> O/ha pawlh chu hman phawt tur a<br>ni. Nitrogen dose chanve chu a chi tuh<br>hunlaia hman tur a ni a, tichuan a<br>bang 25% chu thla khat hnu ah ani<br>ang a adang leh 25% chu a par hunah<br>hman tur a ni.   |
|--|-----------------------------|--------------|--|
| Soybean, pea,<br>lentil toria,<br>breen gram<br>and black<br>gram<br>cultivation in<br>rice fellow | All stage                   | Zero tillage | <ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>  |
| Potato<br>VEGETABLE CRO  | Sowing stage                | AIZAWL       | <ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul> |
| Tomato   | Bacterial<br>Blight disease |              | <ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .</li> </ul>  |
| Early Cole<br>crop   | Black spot<br>disease       | LAWNGTLAL    | <ul> <li>A than a that theih nan nikhat danah<br/>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula<br/>hnim ring vawm khawm hi tui pek</li> </ul>   |
|  |                             |              | 4   P a g e  |



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|                       | 5             |                       | <ul> <li>awm thin a , hei hi natna tlanglawn ber ani.</li> <li>♣ Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb</li> <li>@ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>  |
|-----------------------|---------------|-----------------------|--|
| Onion and<br>capsicum | Nursery stage | Poly house            | <ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek</li> </ul>   |
|                       | AMMIT         | AIZAWL                | <ul> <li>zawhah dah tur ani.</li> <li>Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha CHA hle ani.</li> </ul>   |
|                       | 35            | Phytopthora<br>blight | <ul> <li>A chi ven that nan thiram 3g/kg seed<br/>emaw Trichoderma viride 4g+ metalaxyl 4g<br/>(Apron)/ kg seed hi a tha hle ani</li> <li>Hneh taka 1% Bordeaux chawhpawlh<br/>emaw 2 g captan emaw 3 copper<br/>oxychloride a tui liter 1 hi 10-15 DAS a<br/>pek hi a tha hle ani.</li> </ul>   |
| French bean           | Sowing stage  |                       | <ul> <li>Tui pek a hnihnah hringa khuh tur ani<br/>a. than a that theih nan tui pek hma<br/>in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh<br/>na turin a kung bulah lei vur chhoh zel<br/>tur ani.</li> </ul>  |
| Carrot and<br>radish  | Sowing stage  | LAWNGTLAL             | <ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul> |
|                       | 1             | 201                   |  |

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM



| ANIMAL HUSBE | NDARY                |   |   |
|--------------|----------------------|---|---|
| Pig          | All stages           | KOLASIB   | <ul> <li>Khua a vawh hian vawk hian an mahni<br/>in tih lumna tur atan chakna an<br/>mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah<br/>renga, a chaw ei tur tlem tlema tih tam<br/>hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam<br/>em a vangin an chakna muangchanga<br/>a in siam chhoh zel theih nan a tha hle<br/>ani.</li> </ul> |
|              | AMAMIT               | Porcine<br>Reproductive<br>Respiratory<br>Syndrome<br>(PRRS). | 1. Vawknote emaw vawk lak hran.   |
|              | Adult stage          | Swine fever.  | 2. SF vaccines hi thla 2 hnua pek tur ani a,<br>chumi hnuah chuan kumtin thlaruk<br>danah pek chhunzawm tur ani.  |
| Cattle       | All age group        | SERCHH  | <ul> <li>Hun rei tak khua a ro avanga hnim<br/>hnah hring peh tur a awm loh laia<br/>bawngin an chaw ei in buk tawk tur<br/>leh an taksa tana mamawh tur atan<br/>buh kung urea molasses hmanga<br/>sawngbawl pek tur ani.</li> </ul>   |
|              | All age group        | Foot and Mouth<br>Disease (FMD)                               | • Kar 16 hnuah FMD vaccine pek a,<br>chuan thla tin thla 6 chhung<br>chhunzawm tur ani.   |
|              | Young stage          | Black Quarter<br>(BQ)   | <ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah<br/>emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum<br/>tin pek tur ani.</li> </ul>  |
| Poultry      | Litter<br>management | LAWNGTLAL   | Ar te hian hmun thawl nuam tawk,<br>chaw tha an mamawh tawk leh tui<br>thianghlim an mamawh tawk an hmu<br>tur ani a.   |
|              |                      | r N Y   | <b>6</b>   P a g e  |



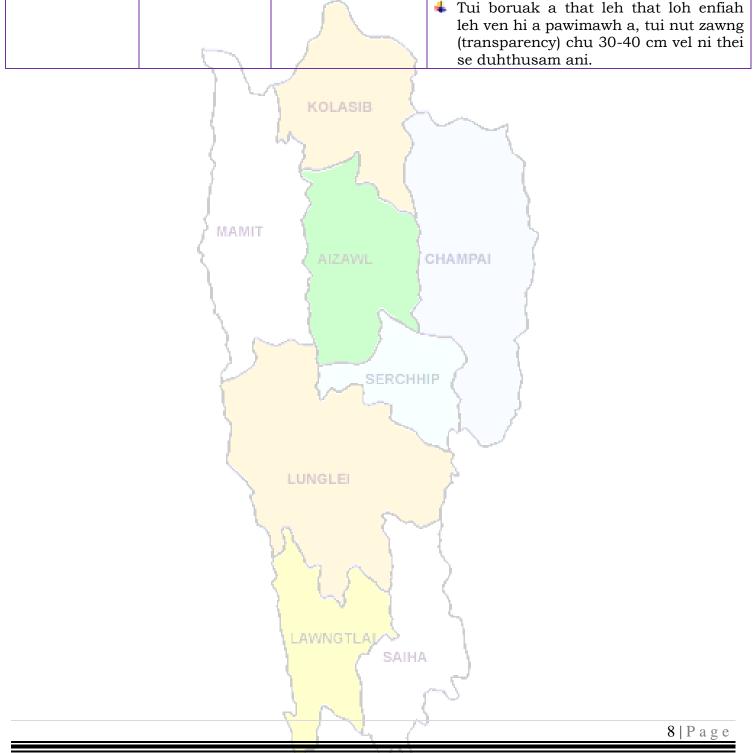
ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



| Preventive       0-3 rd week   | ICAR    |                                     |                       |   |
|--|---------|-------------------------------------|-----------------------|---|
| Preventive<br>measures       0-3 rd week<br>measures       4 Ranikhet Disease- an pian atanga no<br>1-6 ah FI vacine pek tur ani a, chuar<br>a puitingh chuan R <sub>2</sub> B vacine pek tur<br>ani.       4 no<br>ani.         4th weeks       4 coccidiosis-<br>coccidiosist       Amprolium or<br>coccidiosist         9       4 th weeks       4 coccidiosis-<br>coccidiosist         9       Atawit       4 coccidiosis-<br>coccidiosist         9       Atawit       4 coccidiosis-<br>coccidiosist         9       Atawit       4 coccidiosis-<br>coccidiosist         9       Atawit       4 collar chuah turin sangha no te hrise<br>tha hatchery atangin lei tur ani<br>sangha note harh tha deuh leh natha<br>(taksa var, harhlo, pangparh hmawit<br>tawih) veilo tih hriat chian lei hran<br>tum tur ani.         4       Stocking and<br>monitoring<br>(Sangha<br>chhuah leh<br>enkawl)       5 coch<br>sangha note piang hlim (Spawn) leh<br>mit lawk (fry) te chu dam khawchhual<br>(puiting) an tam zawk theina turin<br>dilpui (grow out) a chhuah hmair<br>nursery leh rearing tuikhuah ah khaw<br>hmasak phawt a tha.         4       Sangha a lo than chak zawknan leh ar<br>dam tatna turin diltuikhuah hectar<br>khat zel a zauah sangha note 8000<br>bawr vel chhuah hi a tha ber a ngai<br>ani.         4       Sangha te chu favai leh oik cake zat lef<br>zat (1:1) a chaw pawlhin an taksa<br>rihzawng za zel ah panga ang vel a<br>chaw pek thin hur ani a, sangha a le<br>daw pek thin hur ani a, sangha a le<br>daw pek thin hur ani.   |         | 5                                   | $\sum$                | <ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur</li> </ul>                                  |
| measures       1-6 ah F1 vaccine pek tur ani a, chuar a puttingch chuan R2B vaccine pek tur ani a, chuar a puttingch chuan R2B vaccine pek tur ani.         4th weeks       Coccidiosis- Amprolium or coccidiostat         FISHERY       4-5th Weeks         Stocking and monitoring (Sangha chhuah leh enkawl)       4.10 Weeks         Stocking and monitoring (Sangha chhuah leh enkawl)       Alazari         Stocking and monitoring (Sangha chhuah leh enkawl)       4.10 Dila chhuah turin sangha no te hrise tha hatchery atangin lei tur ani ani tawk (fry) te chu dam khawchhual putting) an tam zawk theina turin dilpui (grow out) a chhuah hmair nursery leh rearing tuikhuah ah khaw hmasak phawt a tha.         Sangha a to thu an chak zawknan leh ar dam thana turin dilpui (grow out) a chhuah hia tha ber a ngail ani.         Sangha te chu favai leh oik cake zat leh ar angai ani.         Sangha te chu favai leh oik cake zat leh ar angai ani.         Sangha te chu favai leh oik cake zat leh and hangir an chaw pek tih miam thin tur.         Sangha te chu favai leh oik cake zat leh ar tai a sangha a te han hangir an chaw pek tih miam thin tur.         Sangha te chu favai leh oik cake zat leh ar tai a pahnih angir an chaw pek tih miam thin tur.   |         | Promontino                          | 0 9 M Step 1-         |   |
| Image: Stocking and monitoring (Sangha chhuah leh enkawl)       4.5th Weeks       Calcium tonic fortified with B12         FISHERY       Azari       CHAMPAI         Stocking and monitoring (Sangha chhuah leh enkawl)       Azari       CHAMPAI         Image: Stocking and monitoring (Sangha chhuah leh enkawl)       Azari       CHAMPAI         Image: Stocking and monitoring (Sangha chhuah leh enkawl)       Azari       CHAMPAI         Image: Stocking and monitoring (Sangha chhuah leh enkawl)       Stocking and monitoring (Sangha chhuah leh enkawl)       Dila chhuah turin sangha not e hrise tha hatchery atangin lei tur ani sangha note piang him (Spawn) leh a turin tur ani .         Image: Stocking and monitoring (Sangha chhuah leh enkawl)       Sangha note piang him (Spawn) leh a turin tur ani .         Image: Stocking and monitoring (Sangha chhuah leh enkawl)       Sangha note piang him (Spawn) leh a turin tur ani .         Image: Stocking and monitoring (Sangha chi ant turin dilugui (grow out) a chhuah hmawi turin tur ani .       Sangha a lo than chak zawknan leh ar dam thatan turin dilugui (grow out) a chhuah hectare at leh az uah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.         Image: Stocking and monitoring (Sangha te chu favai leh oik cake zat lef zat (1:1) a chawh pawlhin an taksa ritzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a leh chai turin dilugui (grow out) a chuah hmai thin tur.         Sangha te chu nitin zing leh tiaid chaw pek thin tur ani.       Sangha te chu nitin zing leh tiaid chaw pek thin tur ani. |         |                                     | U-3 ** Week           | 1-6 ah F1 vaccine pek tur ani a, chuan  |
| 4th weeks       Coccidiosis-<br>coccidiositat       Amprolium on<br>coccidiositat         FISHERY       4-5th Weeks       4-Calcium tonic fortified with B12         FISHERY       Alzavit       CHAMPAI         Stocking and<br>monitoring<br>(Sangha<br>chhuah leh<br>enkawi)       Alzavit       CHAMPAI         Stocking and<br>monitoring<br>(Sangha<br>chhuah leh<br>enkawi)       4-Sth Weeks       4-Dia chhuah turin sangha no te hrise<br>tha hatchery atangin lei tur ani<br>Sangha note harh tha deuh leh natna<br>(taksa yar, harhlo, pangparh hmaw<br>tawih) veilo tih hriat chian lei hran<br>tum tur ani .         LUNCLE       4-Sangha note piang hlim (Spawn) leh a<br>mit lawk (fry) te chu dam khawchhual<br>(puiting) an tam zawk theina turin<br>dilpui (grow out) a chhuah hmain<br>nursery leh rearing tuikhuah ah khaw<br>hmasak phawt a tha.       Sangha a lo than chak zawknan leh ar<br>dam thatna turin diltuikhuah hectara<br>khat zel a zauah sangha note 8000<br>bawr vel chhuah hi a tha ber a ngail<br>ani.       4-Sangha te chu favai leh oik cake zat lef<br>zat (1:1) a chawh pawlhin an taksa<br>rihzawmg za zel ah panga ang vel a<br>chaw pek thin hur ani a, sangha a lo<br>len deuh hnu ah za zel a pahnih angir<br>ah chaw pek thin hur ani a,<br>Sangha te chu nitin zing leh tlaial<br>chaw pek thin hur ani.  |         |                                     | 221                   |   |
| MAMIT       4-5th Weeks       4 Calcium tonic fortified with B12         FISHERY       Alzavit       CHAMPAI         Stocking and monitoring (Sangha chhuah leh enkawl)       Dila chhuah turin sangha no te hrise tha hatchery atangin lei tur ani Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmaw tawih) veilo tih hriat chian lei hran tum tur ani.         Sangha note inang him (Spawn) leh a mit lawk (fry) te chu dam khawchhual [puiting] an tam zawk theina turin dilpui (grow out) a chhuah hmair nursery leh rearing tuikhuah ah khaw hmasak phawt a tha.         Sangha a lo than chak zawknan leh ar dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.         Sangha te chu favai leh oik cake zat lef zat (1:1) a chawh pawlini an takser ihazwng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a le ne deuh hnu ah za zel a pahnih angir an chaw pek tih niam thin tur.         Sangha te chu nitin zing leh tlaial chaw pek thin tur ani.  |         |                                     | 4 <sup>th</sup> weeks | <b>4 Coccidiosis</b> - Amprolium or   |
| FISHERY       AlZAVL       CHAMPAI         Stocking and monitoring (Sangha chuah leh enkawl)       Dila chuah turin sangha no te hrise tha hatchery atangin lei tur ani Sangha note harh tha deuh leh natna (taksa yar, harhlo, pangparh hmawi tawih) veilo tih hriat chian lei hran tur tur ani.         Sangha chuah leh enkawl)       Sercent         LUNGLE       Sangha tote piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuah (puitling) an tam zawk theina turin diluui/ grow out) a chuah hmair nursery leh rearing tuikhuah ah khaw hmasak phawt a tha.         Sangha a lo than chak zawknan leh at dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.         Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a leh neuh hnu ah za zel a pahnih angir an chaw pek thin tur ani.  |         | AMAT                                | A Eth Wester          |   |
| Stocking and<br>monitoring<br>(Sangha<br>chhuah leh<br>enkawi) <ul> <li>Dila chhuah turin sangha no te hrise<br/>tha hatchery atangin lei tur ani<br/>Sangha note harh tha deuh leh natna<br/>(taksa var, harhlo, pangparh hmawi<br/>tawih) veilo tih hriat chian lei hran<br/>tum tur ani.</li> <li>Sangha note piang hlim (Spawn) leh a<br/>mit lawk (fry) te chu dam khawchhual<br/>(puiting) an tam zawk theina turin<br/>dilpui (grow out) a chhuah hmair<br/>nursery leh rearing tuikhuah ah khaw<br/>hmasak phawt a tha.</li> <li>Sangha a lo than chak zawknan leh ar<br/>dam thatna turin diltuikhuah hectare<br/>khat zel a zauah sangha note 8000<br/>bawr vel chhuah hi a tha ber a ngail<br/>ani.</li> <li>Sangha te chu favai leh oik cake zat lef<br/>zat (1:1) a chawh pawlhin an taksa<br/>rihzawng za zel ah panga ang vel a<br/>chaw pek thin tur ani a, sangha a lo<br/>len deuh hnu ah za zel a pahnih angir<br/>an chaw pek thin tur ani.</li> <li>Sangha te chu nitin zing leh tlaial<br/>chaw pek thin tur ani.</li> </ul>   | DIGUEDV |                                     |                       |   |
| <ul> <li>monitoring<br/>(Sangha<br/>chhuah leh<br/>enkawi)</li> <li>tha hatohery atangin lei tur ani<br/>Sangha note harh tha deuh leh natna<br/>(taksa var, harhlo, pangparh hmaw<br/>tawih) veilo tih hriat chian lei hran<br/>tum tur ani.</li> <li>Sangha note piang hlim (Spawn) leh a<br/>mit lawk (fry) te chu dam khawchhual<br/>(putling) an tam zawk theina turin<br/>dilpui (grow out) a chhuah hmair<br/>nursery leh rearing tuikhuah ah khaw<br/>hmasak phawt a tha.</li> <li>Sangha a lo than chak zawknan leh ar<br/>dam thatna turin diltuikhuah hectarek<br/>khat zel a zauah sangha note 8000<br/>bawr vel chhuah hi a tha ber a ngail<br/>ani.</li> <li>Sangha te chu favai leh oik cake zat leh<br/>zat (1:1) a chawh pawlhin an taksa<br/>rihzawng za zel ah panga ang vel a<br/>chaw pek thin tur ani a, sangha a le<br/>len deuh hnu ah za zel a pahnih angir<br/>an chaw pek thin tur ani.</li> </ul>  | FISHERI | Staating and                        | CAIZAWL               |   |
| tum tur ani.         tum tur ani.         Sangha note piang hlim (Spawn) leh a         mit lawk (fry) te chu dam khawchhuał         (puitling) an tam zawk theina turin         dilpui (grow out) a chhuah hmair         nursery leh rearing tuikhuah ah khaw         hmasak phawt a tha.         Sangha a lo than chak zawknan leh ar         dam thatna turin diltuikhuah hectare         khat zel a zauah sangha note 8000         bawr vel chhuah hi a tha ber a ngait         ani.         Sangha te chu favai leh oik cake zat leh         zat (1:1) a chawh pawlhin an taksa         rihzawng za zel ah panga ang vel a         chaw pek thin tur ani a, sangha a lo         len deuh hnu ah za zel a pahnih angir         an chaw pek tih hniam thin tur.         Sangha te chu nitin zing leh tlaiah         chaw pek thin tur ani.   |         | monitoring<br>(Sangha<br>chhuah leh |                       | tha hatchery atangin lei tur ani.<br>Sangha note harh tha deuh leh natna<br>(taksa var, harhlo, pangparh hmawr<br>tawih) veilo tih hriat chian lei hram   |
| <ul> <li>Sangha a lo than chak zawknan leh ar dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.</li> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo than chak zawknan leh ar dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.</li> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo than chaw pek tih hniam thin tur.</li> <li>Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.</li> </ul>  |         |                                     |                       | <ul> <li>Sangha note piang hlim (Spawn) leh a<br/>mit lawk (fry) te chu dam khawchhuak<br/>(puitling) an tam zawk theina turin,<br/>dilpui (grow out) a chhuah hmain<br/>nursery leh rearing tuikhuah ah khawi</li> </ul> |
| Zat (1:1) a chawh pawlhin an taksa<br>rihzawng za zel ah panga ang vel a<br>chaw pek thin tur ani a, sangha a lo<br>len deuh hnu ah za zel a pahnih angir<br>an chaw pek tih hniam thin tur.<br>SaiHa<br>SaiHa<br>SaiHa<br>SaiHa<br>SaiHa  |         |                                     | A                     | Sangha a lo than chak zawknan leh an<br>dam thatna turin diltuikhuah hectare<br>khat zel a zauah sangha note 8000<br>bawr vel chhuah hi a tha ber a ngaih<br>ani.   |
| SAIHA an chaw pek tih hniam thin tur.<br>Sangha te chu nitin zing leh tlaiah<br>chaw pek thin tur ani.   |         |                                     | LAWNGTLAK             | Sangha te chu favai leh oik cake zat leh<br>zat (1:1) a chawh pawlhin an taksa<br>rihzawng za zel ah panga ang vel a<br>chaw pek thin tur ani a, sangha a lo<br>len deuh hnu ah za zel a pahnih angin                     |
|  |         |                                     | SAIHA                 | an chaw pek tih hniam thin tur.<br>Sangha te chu nitin zing leh tlaiah  |
|  |         |                                     |                       | 7   P a g e   |





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### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



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V LAWNGTLA] SAIHA

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R RESEARCH COMPLEX FOR NEH REGION ICA

Mizoram Centre, Kolasib- 796081, MIZORAM

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



### **District:** Lawngtlai

Bulletin No: - 717/2017/ Bulletin/English

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

| Parameters              | 12.07.2017                    |  | 14.07.2017       | 15.07.2017                    | 16.07.2017             |
|-------------------------|-------------------------------|--|------------------|-------------------------------|------------------------|
| Rainfall (mm)           | 5                             | 11   | 34               | 4                             | 4                      |
| Max Temp (°C)           | 31                            | 31   | 29               | 30                            | 32                     |
| Min Temp (°C)           | 23                            | 23   | 25               | 25                            | 25                     |
| Cloud Coverage          | Mainly cloudy                 |  | Mainly cloudy    | Partially clear               | Mainly cloudy          |
| Max RH (%)              | 96                            | 97   | 98               | 97                            | 96                     |
| Min RH (%)              | 75                            | 70   | 84               | 85                            | 74                     |
| Wind Speed (KmpH)       | 5                             | 5  | 3                | 4                             | 4                      |
| *Wind Direction         | S-E                           | S-E  | S-E              | E                             | E                      |
| Northe                  | rly- N, North-                | Easterly- N-E, Easterly-   | sterly- E, South | -Easterly- <mark>S-E</mark> , |                        |
| Souther                 | rly- <mark>S</mark> , South-V | Westerly- <mark>S-W</mark> , We  | sterly-W, North  | -westerly- N-W.               |                        |
| STATUS OF MONSO         | OON- April 1-3                | 0, 2017 (Percent   | of deviation fr  | om normal in p                | arenthesis)            |
| <b>Aizawl-</b> 384.87mm | Champha                       | i- 105.48mm  | Saiha- 307.40 n  | nm Kolasib-                   | 236.00mm               |
| (430.2mm)               |                               | (359.89mm)   | (507.7n          | nm)                           | (428.1mm)              |
| Lawngtlai-291.20mm      | Lunglei-                      | -326.00mm  | Mamit-204.87n    | nm Serchhip                   | -411.72mm              |
| (453.1mm)               |                               | (465.14mm)   | (442.80n         |                               | (259.62mm)             |
| Weather summary         | of the past                   | Weather fore   | cast valid fron  | 12 <sup>th</sup> July, 20     | 17 To 16 <sup>th</sup> |
| three day               | s                             |  | July, 2          | 017.                          |                        |
| Maximum Tem. (°C):2     | 28-29°C                       | There are chanc  | es of moderate   | e to light rainfa             | ll during the          |
| Minimum Tem. (°C):2     |                               | next 5 days. The   |                  | 0                             | <u> </u>               |
| Maximum RH (%):93-      | /                             | the next 5 day   |                  |                               | ÷                      |
| Minimum RH (%):71-      |                               | Maximum relativ  | 5 0              |                               |                        |
| Wind Direction: Sout    |                               | 98% and minin  |                  |                               |                        |
| Cloud cover: Mainly of  |                               | would be southe  | 2                |                               |                        |
| Wind speed: 2 km/hr     |                               |  | 2                | 2                             | <b>±</b>               |
|                         |                               | 3-5 km per hour  | . Mainly cloud   | y sky will preva              | all during the         |
| Rainfall: 19.6 mm       |                               | next five days.  |                  |                               |                        |
|                         |                               |  |                  |                               |                        |
|                         |                               | Weekl  |                  | rainfall: 58.0 1              |                        |
| NDVI for Mizoram        |                               | North East Region 29 June 2017   | 5                | wet mildly dr                 | y/mildly wet           |
|                         |                               | ~~   | conditions       |                               |                        |
|                         |                               |  |                  |                               |                        |
|                         |                               | 0.3-0.4 J<br>0.4-0.5 J<br>0.5-0.6 J<br>0.6-0.7 J   | Good             |                               |                        |
|                         |                               | <b>°</b> G° <b>−</b> >0.7 }  | Wery Good        |                               |                        |
|                         |                               | Agriculture vigour is good over most of the parts Northern As<br>Tripure and Meghalaya whereas moderate vigour is noticed in<br>of the region. | est              |                               |                        |
|                         |                               |  |                  |                               |                        |
|                         |                               |  | N                |                               | 110                    |
|                         |                               |  | (                |                               | 1   P a g e            |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



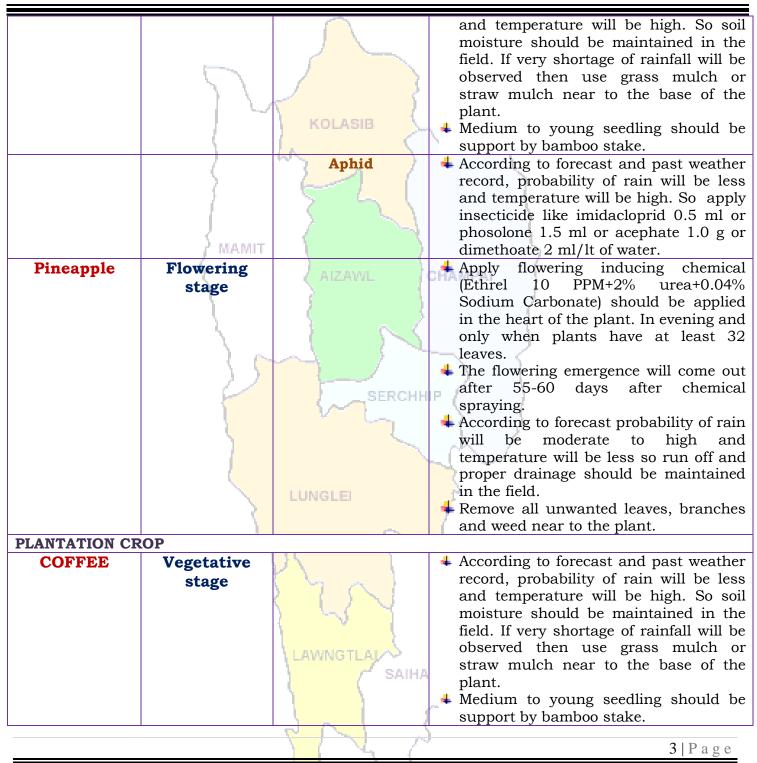
| Main O /      | Ch.           | 014 1                              |   |
|---------------|---------------|------------------------------------|---|
| Main Crop/    | Stage         | Cultural                           | Agricultural / Horticultural / animal   |
| Animal        |               | practices/ Pest/                   | husbandry advisories  |
| /Fisheries    |               | Diseases                           |   |
| FRUITS CROPS  |               |                                    |   |
| KHASI         | Seedling      | S S                                | <b>4</b> According to forecast and past weather                                 |
| MANDARIN      | transplanting | KOLASIB                            | record, probability of rain will be less  |
| AND ACID      | stage         | 1                                  | and temperature will be high. So soil   |
| LIME          | Ĩ             | What I                             | moisture should be maintained in the  |
|               | (             | 1 1 1                              | field. If very shortage of rainfall will be                                     |
| BANANA        | 1             |                                    | observed then use grass mulch or  |
|               | 1             |                                    | straw mulch near to the base of the   |
|               |               |                                    | plant.  |
| STAR FRUIT    | A MAMIT       | 1 1 1                              | <b>4</b> Medium to young seedling should be                                     |
|               |               |                                    | support by bamboo stake.  |
| PLUM AND      | 2             | AIZAWL                             | □ ↓ In the citrus belt, trees can be planted                                    |
| PEACH         | 1             |                                    | at any time; however, spring is the best  |
| PLACH         | 1             | 1 6 5                              | time for container grown plants.  |
|               |               |                                    | Standard-size trees should be spaced  |
|               |               |                                    | 12 to 25 feet apart and dwarf trees   |
|               |               |                                    | should be set 6 to 10 feet apart. The   |
|               | 1             |                                    | exact distance depends on the variety.  |
|               |               | SERCHH                             |   |
|               |               |                                    | the distance.   |
|               |               |                                    | Use split dose of fertilizer for normal   |
|               |               | Our and a site site and            | growth and development.   |
|               |               | Gummosis, citrus<br>Canker, Citrus | According to forecast and past weather record, probability of rain will be less |
|               |               | Lungreening,                       | and temperature will be high. So  |
|               | <u> </u>      | Dieback, Lamon                     | following pest problem will be high   |
|               |               | butterfly and leaf                 | <b>Lamon butterfly</b> - Spray monocrotophos                                    |
|               |               | minor                              | @0.04% @1.2 ml/lt of water.   |
|               |               |                                    | <b>Leaf minor-</b> Spray confidor 0.05% (0.5                                    |
|               |               |                                    | ml/lit of water) at each flush  |
|               |               |                                    | emergence.  |
|               |               |                                    | <b>4</b> Citrus Canker- Apply bacterimycin                                      |
|               |               | N ~ (                              | @0.6 g/lt of water.   |
| Passion Fruit | Vegetative    |                                    | <b>4</b> Trail semi hard wood stem to bower                                     |
|               | stage         | SAIHA                              | atmiatima   |
|               | Ŭ             | ( SAIHA                            | 4 Clean near the base of the plant.   |
|               |               |                                    | According to forecast and past weather  |
|               |               |                                    | record, probability of rain will be less  |
|               |               |                                    | )   |
|               |               |                                    | 2   P a g e   |



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



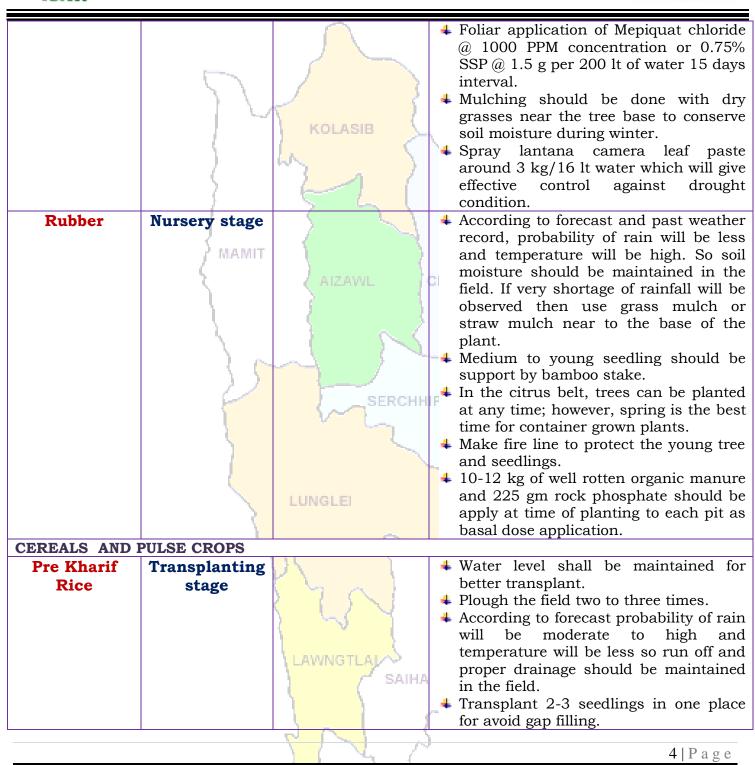




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Mizoram Centre, Kolasib- 796081, MIZORAM







## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



|                          |                               |   | <ul> <li>Spacing should be 20 cm row to row and 15 cm plant to plant.</li> <li>Keep some seedlings in nursery or corner of the field for gap filling.</li> </ul>  |
|--------------------------|-------------------------------|---|---|
|                          |                               | Rice thrips and<br>rice leaf mites      | According to forecast probability of rain will<br>be moderate to high and temperature will<br>be less and humidity will high so possibility<br>of rice thrips attack will high.   |
|                          |                               | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Spray Monocrotophos @ 1.5 ml/lt of water<br>or Imidachloroprid 1.5 ml/lt of water for<br>effective control.   |
| Jhum Rice                | Germination<br>stage<br>MAMIT | AIZAWL                                  | <ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top</li> </ul>                               |
|                          |                               | Rice stem borer<br>and leaf folder      | <ul> <li>According to forecast probability of rain will<br/>be moderate to high and temperature will</li> </ul>   |
|                          | 2                             | SERCHH                                  | <ul> <li>be less and humidity will high so possibility of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul>   |
| Maize<br>( <i>Jhum</i> ) | Vegetative<br>stage           | LUNGLEI                                 | <ul> <li>According to forecast probability of rain<br/>will be moderate to high and<br/>temperature will be less so run off and<br/>proper drainage should be maintained<br/>in the field.</li> <li>Don't use split dose of fertilizer for top<br/>dressing.</li> </ul> |
| VEGETABLE CRO            | )P                            |   | ur coomp.   |
| Cowpea                   | Vegetative<br>stage           |   | <ul> <li>According to forecast probability of rain<br/>will be moderate to high and<br/>temperature will be less so run off and<br/>proper drainage should be maintained<br/>in the field.</li> </ul>   |
|                          |                               | SAIHA                                   | <ul> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower structure</li> </ul>  |
|                          |                               | T N N                                   | 5   P a g e   |



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Mizoram Centre, Kolasib- 796081, MIZORAM



| ICAR          |   |                 |  |
|---------------|---|-----------------|--|
|               |   |                 | 4 Clean near the base of the plant.                                    |
| Okra          | Vegetative                              |                 | <ul> <li>According to forecast probability of rain</li> </ul>          |
| UNIA          | •                                       |                 | will be moderate to high and   |
|               | stage                                   |                 |  |
|               |   | 1 5             | temperature will be less so run off and                                |
|               |   | F 1             | proper drainage should be maintained                                   |
|               |   | KOLASIB         | in the field.  |
|               |   |                 | 4 Don't use split dose of fertilizer for top                           |
|               | 1                                       |                 | dressing.  |
|               |   | ~ ~ /           |  |
|               | $\rightarrow$                           |                 | structure  |
|               | )                                       |                 | 4 Clean near the base of the plant.                                    |
|               |   | Okra leafroller | Apply insecticide like imidacloprid 0.5 ml or                          |
|               |   |                 | phosolone 1.5 ml or acephate 1.0 g or                                  |
|               | A MAMIT                                 |                 | dimethoate 2 ml/lt of water.   |
| Ginger and    | Vegetative                              |                 | According to forecast probability of rain                              |
| turmeric      | stage                                   | AIZAWL          | will be moderate to high and   |
|               |   |                 | temperature will be less so run off and                                |
|               |   | 6 3             | proper drainage should be maintained                                   |
|               |   |                 | in the field.  |
|               | 1                                       |                 | 📥 Apply well decomposed FYM/ pig                                       |
|               |   | $\sim$ $/$      | manure @ 10-20 t/ha along with   |
|               |   |                 | $120:80:60$ kg N, $P_2O_5$ and $K_2O/ha$                               |
|               | Sec.                                    | SERCHH          | P incorporate with soil for better                                     |
|               |   |                 | development.   |
| 0.1           | TT                                      |                 |  |
| Colocasia     | Vegetative                              |                 | According to forecast probability of rain will be moderate to high and |
|               | stage                                   |                 | 0  |
|               |   |                 | temperature will be less so run off and                                |
|               |   | LUNGLEI         | proper drainage should be maintained                                   |
|               | 2                                       |                 | in the field.  |
|               | 1                                       | ~               | Apply well decomposed FYM/ pig   |
|               | 1 A A A A A A A A A A A A A A A A A A A | a (~            | manure @ 10-20 t/ha along with   |
|               |   |                 | 120:80:60 kg N, $P_2O_5$ and $K_2O/ha$                                 |
|               |   |                 | incorporate with soil for better                                       |
|               |   |                 | development.   |
| ANIMAL HUSBEN | IDARY                                   |                 |  |
| Pig           | All stages                              |                 | 4 As the weather gets colder, your pigs                                |
|               |   |                 | energy requirement will increase, as                                   |
|               |   | LAWNGTLAL       | they need more energy to keep warm.                                    |
|               |   | / SAIHA         | 4 Regularly monitor their level of 'fitness'                           |
|               |   |                 | and increase their feed intake to                                      |
|               |   |                 | maintain.  |
|               |   |                 |  |
|               |   | N.A             | <b>6</b>   P a g e   |
|               |   |                 | 011 450  |



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

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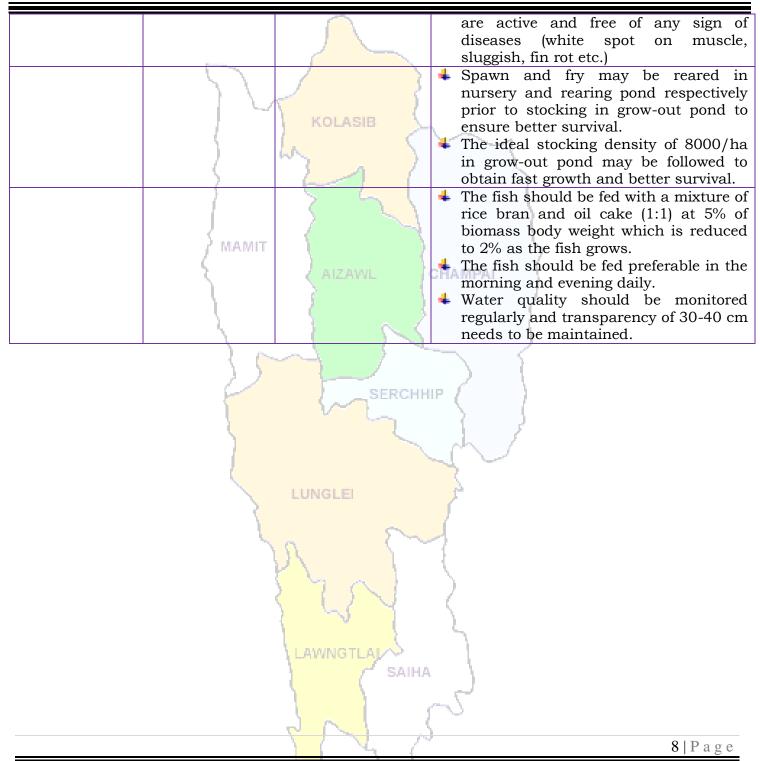
|         |                         | $\wedge$  | Fish oils are excellent for providing<br>slow-release energy with the added<br>advantage of a high level of omega-3.   |
|---------|-------------------------|---|--|
|         |                         | Porcine<br>Reproductive<br>Respiratory<br>Syndrome<br>(PRRS). | 1. Culling of positive pigs or piglets.  |
|         | Adult stage             | Swine fever.  | 2. Vaccination of pigs with SF vaccines at 2<br>months and yearly interval/6 month<br>interval   |
| Cattle  | All age group           | AIZAWL  | <ul> <li>During either hot or heavy rainy condition, animal are advised to keep under shade.</li> <li>Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.</li> </ul>  |
| Poultry | Litter<br>management    | LUNGLEI   | <ul> <li>Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water.</li> <li>Good management and sanitation are the best ways to avoid infectious disease in poultry.</li> <li>Provide ample quantity of clean drinking water.</li> <li>Avoid feeding of mouldy feed. Don't make sudden changes in feed</li> </ul> |
|         | Preventive<br>measures  | 0-3 rd week   | <ul> <li>Ranikhet Disease- F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> <li>B complex with antibodies</li> </ul>   |
|         |                         | 4 <sup>th</sup> weeks   | <b>Coccidiosis-</b> Amprolium or coccidiostat  |
|         |                         | 4-5 <sup>th</sup> Weeks                                       | $\clubsuit$ Calcium tonic fortified with B <sub>12</sub>   |
| FISHERY |                         | SAIHA   |  |
|         | Stocking and monitoring |   | <ul> <li>Healthy fish seed may be procured from<br/>hatcheries for stocking in the pond. It<br/>should be ensured that the fish seed</li> </ul>  |
|         |                         |   | <b>7</b>   P a g e   |



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Mizoram Centre, Kolasib- 796081, MIZORAM







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Guwahati)



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V LAWNGTLA] SAIHA

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM

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



### **District:** Lawngtlai

| Bulletin No: - 717/2017/ Bulletin/Mi | zo |
|--------------------------------------|----|
|--------------------------------------|----|

Period: 12 July - 16 July, 2017

Date of issue: 11<sup>th</sup> July, 2017

|  | <u> </u>        |  |                                  |                               |                                       |  |
|--|-----------------|--|----------------------------------|-------------------------------|---------------------------------------|--|
| Parameters                             | 12.07.2017      | 13.07.2017   | 14.07.2017                       | 15.07.2017                    | 16.07.2017                            |  |
| Rainfall (mm)                          | 5               | 11   | 34                               | 4                             | 4                                     |  |
| Max Temp (°C)                          | 31              | 31   | 29                               | 30                            | 32                                    |  |
| Min Temp (°C)                          | 23              | 23   | 25                               | 25                            | 25                                    |  |
| Cloud Coverage                         | Mainly cloudy   | Mainly cloudy  | Mainly cloudy                    | Partially clear               | Mainly cloudy                         |  |
| Max RH (%)                             | 96              | 97   | 98                               | 97                            | 96                                    |  |
| Min RH (%)                             | 75              | 70   | 84                               | 85                            | 74                                    |  |
| Wind Speed (KmpH)                      | 5               | 5  | 3                                | 4                             | 4                                     |  |
| *Wind Direction                        | S-E             | S-E  | S-E                              | E                             | E                                     |  |
| Northe                                 | rly- N, North-I | Easterly- N-E, Easterly-   | sterly- E, South                 | -Easterly- <mark>S-E</mark> , |                                       |  |
|  |                 | /esterly- <mark>S-W</mark> , We  |                                  |                               |                                       |  |
| STATUS OF MONSO                        | OON- April 1-3  | 0, 2017 (Percent   | of deviation fr                  | om normal in p                | arenthesis)                           |  |
| Aizawl- 384.87mm                       | Champhai        | - 105.48mm   | Saiha- 307.40 n                  | nm Kolasib-                   | 236.00mm                              |  |
| (430.2mm)                              | _               | (359.89mm)   | (507.7r                          | nm)                           | (428.1mm)                             |  |
| Lawngtlai-291.20mm                     | Lunglei-        | 326.00mm   | Mamit-204.87n                    | nm Serchhip                   | -411.72mm                             |  |
| (453.1mm)                              | (               | 465.14mm)  | (442.80r                         | nm)                           | (259.62mm)                            |  |
| Weather summary                        | of the past     | $12^{\text{th}}$ Julv- 1   | <b>6<sup>th</sup> July. 20</b> 1 | l7 chhunga s                  | sik leh sa                            |  |
| three day                              | s               | · · · · · · · · · · · · · · · · · · ·  | dinhmun tu                       |                               |                                       |  |
| Maximum Tem. (°C):2                    | 9 200C 7        | Fun ni 5 chhur   |                                  |                               | i the michle                          |  |
| Minimum Tem. (°C):2                    |                 |  | 0                                |                               |                                       |  |
| Maximum RH (%):93-                     |                 | tura beisei a ni. Khua a lum lai berin 29-32°C a ni ang a. A vawh lai ber in 23-25°C ni tura beisei a ni. RH san lai                               |                                  |                               |                                       |  |
| Minimum RH (%):71-                     | 000/            | berin 96-98% leh a hniam lai berin 70-85% ni tur a rin   |                                  |                               |                                       |  |
| Wind Direction: Sout                   | hoostorly       |  |                                  |                               |                                       |  |
| Cloud cover: Mainly of                 |                 | niin. Thli hi darkar khatah 3-5 km vela chakin chhaklam  |                                  |                               |                                       |  |
| Wind speed: 2 km/hr                    | , T             | awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung  |                                  |                               |                                       |  |
| ······································ | 1               | hian khawthiang  | g tak hmuh bei                   | sei a ni.                     |                                       |  |
| Rainfall: 19.6 mm                      |                 |  |                                  |                               |                                       |  |
|  |                 | Weekl  | y cumulative                     | <mark>rainfall:</mark> 58.0r  | nm                                    |  |
| NDVI for Mizoram                       |                 |  | Moderately                       | wet mildly dr                 | v/mildly wet                          |  |
|  |                 | North East Region 29 June 2017   | conditions                       |                               | , , , , , , , , , , , , , , , , , , , |  |
|  |                 | -<0.2 bire<br>bick<br>0.2-0.3 1  |                                  |                               |                                       |  |
|  |                 | 0,3-0,4<br>0,3-0,4<br>0,4-0,5<br>0,5-0,6   | Good                             |                               |                                       |  |
|  |                 |  | Very Good                        |                               |                                       |  |
|  |                 | Agriculture vigour is good over most of the parts Northern As<br>Tripura and Meghalaya whereas moderate vigour is noticed in<br>of the participant |                                  |                               |                                       |  |
|  |                 | se site region.  |                                  |                               |                                       |  |
|  |                 | JAL  |                                  |                               |                                       |  |
|  |                 |  | N                                |                               | 1   Page                              |  |
|  |                 |  |                                  |                               | IIIagu                                |  |



### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM



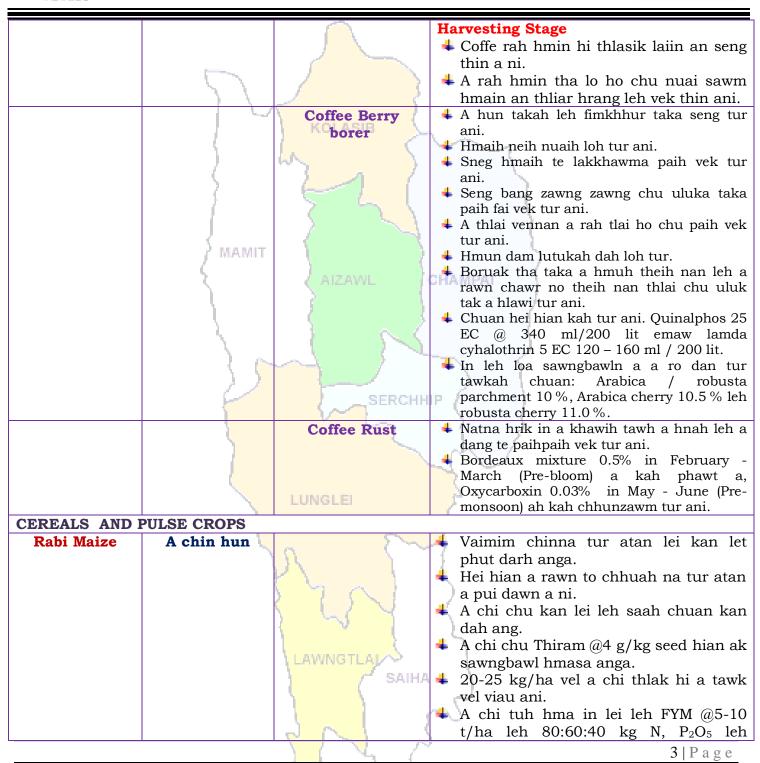
| Main Crop/        | Stage          | Cultural                | Agricultural / Horticultural/ animal   |
|-------------------|----------------|-------------------------|--|
| Animal            |                | practices/ Pest/        | husbandry advisories   |
| /Fisheries        |                | Diseases                |  |
| FRUITS CROPS      |                | 1                       |  |
| KHASI             | A kui atanga 🖉 | -                       | 4 Thlasik laia thlai bul khoro lutuk tur   |
| MANDARIN          | a seng hun     | KOLASIB                 | vennan chuan hnim hnah hring tlai bul  |
| AND ACID          | 3              |                         | velah dahkhawm tur ani.  |
| LIME              |                | LA V                    | 4 Thlai naupang deuah chuan chawlh   |
|                   | (              | 3 1                     | kar tin a tui pek thin tur ani.  |
| BANANA            |                |                         | Leia tha mamawh tawk a hmuh  |
|                   |                |                         | theihna turin a hmunhma a hnim awm   |
|                   |                |                         | te thlawhfai thin tur ani.   |
| STAR FRUIT        | A MAMIT        |                         | <b>4</b> A seng hma kar 6 chhung chu tui tha   |
|                   | /              |                         | taka pek hian a rah tla tur chelh nan  |
| PLUM AND          | 2              | AIZAWL                  | leh a rah than that nan te leh a rah   |
| PEOM AND<br>PEACH | 1              |                         | keh tur lakah t a veng thei ani.   |
| РЕАСП             |                | 0                       | Transactory hair hat he have a series  |
|                   |                | Gummosis, citrus        | Temperture hniam lutuk leh hnawng vang<br>hian natna a a tam duh a . Soil bome natna |
|                   |                | canker, citrus          | - laka vennan Bordeaux past hi thing zar leh   |
|                   |                | greening and<br>Dieback | a trangah te hnawih tur ani.   |
|                   |                |                         |  |
|                   |                | Fruit fly RCHH          | rah tan tirin chawlhkar hnih chhung chu  |
|                   |                |                         | heng te hian enkawl tur ani: carbaryl 0.2  |
|                   |                |                         | percent emaw malathion 0.15 percent  |
|                   |                |                         | suspension containing sugar or jeggery at  |
|                   |                |                         | 10 g/l.  |
| PLANTATION CR     |                | LONGLEI                 |  |
| COFFEE            | All stages     |                         | Nursery stage  |
|                   |                | ~                       | + Thlai chi thlak hma in Azospirillum leh  |
|                   |                | a (~~                   | Phosphobacterium a enkawl tur ani.   |
|                   |                |                         | A chi hi December – January ah hmun  |
|                   |                |                         | zawl/rualrem 1.5 - 2.5 cm a in hlatin  |
|                   |                |                         | tlar mumal tak siam in chin tur ani.   |
|                   |                | 1 5 1                   | Chuan a chi chu lei tlem te a chhilh a   |
|                   |                |                         | buhpawla khuh tur ani.<br>Vitin tui pek tur ani a, a sat lutuka loh                  |
|                   |                |                         | nan niin a chhun loh nan zar hliah tur   |
|                   |                | / SAIHA                 |  |
|                   |                |                         | $\stackrel{\text{ann.}}{\clubsuit}$ Ni 45 hnu velah a tiak thin a,chu chu            |
|                   |                |                         | bag ah an sawn chhuak leh thin ani.  |
|                   |                |                         | Sag an an sawn chindar ich thin alli.  |
|                   |                |                         | <b>2</b>   D a g a   |
|                   |                | <u>~_</u>               | 2   P a g e  |



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

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|  | 2                           |              | $K_2O/ha$ pawlh chu hman phawt tur a<br>ni. Nitrogen dose chanve chu a chi tuh<br>hunlaia hman tur a ni a, tichuan a<br>bang 25% chu thla khat hnu ah ani<br>ang a adang leh 25% chu a par hunah<br>hman tur a ni.   |
|--|-----------------------------|--------------|--|
| Soybean, pea,<br>lentil toria,<br>breen gram<br>and black<br>gram<br>cultivation in<br>rice fellow | All stage                   | Zero tillage | <ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>  |
| Potato   | Sowing stage                | AIZAWL       | <ul> <li>Muangchang loving alu chin na tur<br/>chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin<br/>lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai<br/>taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah<br/>hmasak tur ani.</li> <li>A than a that theih nan nikhat danah<br/>tui pek thin tur ani.</li> </ul> |
| VEGETABLE CRO<br>Tomato  | Bacterial<br>Blight disease |              | <ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .</li> </ul>  |
| Early Cole<br>crop   | Black spot<br>disease       | LAWNGTLAL    | <ul> <li>A than a that theih nan nikhat danah<br/>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula<br/>hnim ring vawm khawm hi tui pek</li> </ul>   |
|  |                             |              | ) 4   P a g e  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

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| Onion and<br>capsicumNursery stagePoly houseHala ma a ma lam chi leh zikhlum lam<br>chi reng reng enkawl nan Mancozch<br>@ 2gm ah tui leter 1 pawlha kah<br>tur ani.Onion and<br>capsicumNursery stagePoly houseA than a that theih nan nikhat danah<br>tui pek tain tur ani.MAMITAthan a that theih nan nikhat danah<br>tui pek tain tur ani.Thiai bal yawn hnawn nana thiai bula<br>hnim ring yawn khawm hi tui pek<br>zawhah dah tur ani.MAMITAthan<br>AthanThiai china hmun (nursery) hi hnim a<br>to loh nan Pendimethalin @ 3.5ml h<br>tui liter 1/zelah pawlh a kah hi a tha<br>He ani.Phytopthora<br>blightA chi ven that nan thiraga khuh tur ani<br>a. than a that he ani<br>He hata 1% Bordeaux chawhpawli<br>emaw 2 g captan emaw 3 copper<br>oxychloride a tui liter 1 hi 10-15 DAS a<br>pek hi a tha hie ani.French beanSowing stageSowing stageCarrot and<br>radishSowing stageA than a that theih nan tui pek hma<br>in lei rin pan hmasak tur ani.<br>A than a that theih nan likhat danah<br>tui pek hin ut ani.<br>Tui pek a huhah thiai bul yawn hnawn<br>na tur siam tur ani.<br>Tui pek huhah thai bul yawn hnawn<br>na tur siam tur ani.<br>Tui pek huhah thai bul yawn hnawn<br>na tur siam tur ani.<br>Tui pek huhah thai bul yawn hnawn<br>na tur siam tur ani.<br>Thia inna lam chi leh zikhlum lam<br>chi reng reng enkawl nam  | ICAR        |               |            |  |
|---|-------------|---------------|------------|--|
| Onion and<br>capsicum       Nursery stage       Poly house       A than a that theih nan nikhat danah<br>tui pek thin tur ani.         MAMIT       MAMIT       Thiai bul yawn hnawn nana thiai bul<br>hnim ring yawn khawm hi tui pek<br>zawhah dah tur ani.         MAMIT       MAMIT       Ataan         MAMIT       Ataan       Thiai china hmun (nursery) hi hnim a<br>to loh nan Pendimethalin @ 3.5ml hi<br>tui liter 1 / zelah pawlh a kah hi a tha<br>hhie ani.         Phytopthora<br>blight       Phytopthora<br>blight       A chi ven that nan thiram 3g/kg seed<br>emaw Trichoderma viride 4g+ metalaxyl 4g<br>(Apron)/ kg seed hi a tha hle ani         French bean       Sowing stage       A chi ven that nan thiram 3g/kg seed<br>emaw Trichoderma viride 4g+ metalaxyl 4g<br>(Apron)/ kg seed hi a tha hle ani         Carrot and<br>radish       Sowing stage       A than a that theih nan tui pek hma<br>in lei rin pan hmasak tur ani.         Carrot and<br>radish       Sowing stage       A than a that theih nan nikhat danah<br>tui pek hnuah thali bul vawn hnawn<br>na tur siam tur ani.         Carrot and<br>radish       Sowing stage       A than a that theih nan nikhat danah<br>tui pek hnuah thali bul vawn hnawn<br>na tur siam tur ani.         Thig be hnuah thei hai bul vawn hnawn<br>na tur siam tur ani.       Thi a than am chi ah chuan sik leh<br>sa vangin a hnah ah thil dum a<br>rawn awm thina, hei hi natna<br>tlanglawn ber ani.         Thi han lam chi i he zikhlum lam<br>chi reng reng enkawl nam<br>Mancozeb @ 2gm ah tui leter 1<br>pawlha kah tur ani.  |             | 2             |            | <ul> <li>Thlai hna lam chi leh zikhlum lam<br/>chi reng reng enkawl nan Mancozeb</li> <li>@ 2gm ah tui leter 1 pawlha kah</li> </ul>   |
| capsicum       Image: Capsicum       tui pek thin tur ani.         Image: Capsicum       Image: Capsicum       Image: Capsicum         Image: Capsicum       Sowing stage       Image: Capsicum         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing sta  | Onion and   | Nursery stage |            |  |
| Carrot and radish       Sowing stage       French bean       Sowing stage       French bean       Sowing stage       Tui pek hi atha ble ani.         Carrot and radish       Sowing stage       French bean       Sowing stage       French bean         Carrot and radish       Sowing stage       French bean       Sowing stage       French bean         Carrot and radish       Sowing stage       French bean       Sowing stage       French bean         Carrot and radish       Sowing stage       French bean       Sowing stage       French bean         Carrot and radish       Sowing stage       French bean       French bean       Sowing stage         Carrot and radish       Sowing stage       French bean       French bean       French bean         Carrot and radish       Sowing stage       French bean       French bean       French bean         Carrot and radish       Sowing stage       French bean       French bean       French bean         Carrot and radish       Sowing stage       French bean       French bean       French bean         Sowing stage       French bean       Sowing stage       French bean       French bean         Carrot and radish       Sowing stage       French bean       French bean       French bean         Sowing stage </th <th></th> <th>Nursery stage</th> <th>Thy nouse</th> <th><ul> <li>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula<br/>hnim ring vawm khawm hi tui pek<br/>zawhah dah tur ani.</li> <li>Thlai chhina hmun (nursery) hi hnim a</li> </ul></th>  |             | Nursery stage | Thy nouse  | <ul> <li>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula<br/>hnim ring vawm khawm hi tui pek<br/>zawhah dah tur ani.</li> <li>Thlai chhina hmun (nursery) hi hnim a</li> </ul>   |
| BightBightFrench beanSowing stageFrench beanSowing stageCarrot and<br>radishSowing stageLawnot Lawnot |             | AMAMIT        | AIZAWL     | tui liter 1 zelah pawlh a kah hi a tha   |
| French beanSowing stageImage: Tui pek a hnihnah hringa khuh tur ani<br>a. than a that theih nan tui pek hma<br>in lei rin pan hmasak tur ani.Carrot and<br>radishSowing stageImage: Tui pek a hnihnah hringa khuh tur ani<br>a. than a that theih nan tui pek hma<br>in lei rin pan hmasak tur ani.Carrot and<br>radishSowing stageImage: Tui pek a hnihnah hringa khuh tur ani<br>A than duna theih nan leh hnim to loh<br>na turin a kung bulah lei vur chhoh zel<br>tur ani.Carrot and<br>radishSowing stageImage: Tui pek a hnihnah hringa khuh tur ani.Carrot and<br>radishSowing stageImage: Tui pek a hnihnah hringa khuh tur ani.Carrot and<br>radishSowing stageImage: Tui pek a hnihnah hringa khuh tur ani.Carrot and<br>radishSowing stageImage: Tui pek a hnihnah hringa khuh tur ani.Carrot and<br>radishSowing stageImage: Tui pek a hnihnah hringa khuh tur ani.Carrot and<br>radishSowing stageImage: Tui pek a hnihnah hringa khuh tur ani.Carrot and<br>radishSowing stageImage: Tui pek hnihnah hringa khuh tur ani.Carrot and<br>radishSowing stageImage: Tui pek hnihnah hringa khuh tur ani.Carrot and<br>radishSowing stageImage: Tui pek hnihnah hringa khuh tur ani.Carrot and<br>radishSowing stageImage: Tui pek hnihnah hringa khuh tur ani.Carrot and<br>radishSowing stageImage: Tui pek hnihnah an thila bul vawn hnawn<br>na tur siam tur ani.Lawnstruat<br>tui pek hnihnah an thil dum a<br>rawn awm thina, hei hi natna<br>thanglawn ber ani.Image: Tui pek hnihnah ani tui pek hnihnah tui pek hnihnah tui pek hn   |             | 35            |            | emaw Trichoderma viride 4g+ metalaxyl 4g<br>(Apron)/ kg seed hi a tha hle ani<br>Hneh taka 1% Bordeaux chawhpawlh<br>emaw 2 g captan emaw 3 copper<br>oxychloride a tui liter 1 hi 10-15 DAS a   |
| radish       tui pek thin tur ani.         Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.         Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.         Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nam Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.   | French bean | Sowing stage  |            | <ul> <li>Tui pek a hnihnah hringa khuh tur ani<br/>a. than a that theih nan tui pek hma<br/>in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh<br/>na turin a kung bulah lei vur chhoh zel</li> </ul>   |
|   |             | Sowing stage  | LAWINGTLAL | <ul> <li>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1</li> </ul> |
|   |             |               | 201        |  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

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| ANIMAL HUSBE | NDARY                |   |   |
|--------------|----------------------|---|---|
| Pig          | All stages           | KOLASIB   | <ul> <li>Khua a vawh hian vawk hian an mahni<br/>in tih lumna tur atan chakna an<br/>mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah<br/>renga, a chaw ei tur tlem tlema tih tam<br/>hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam<br/>em a vangin an chakna muangchanga<br/>a in siam chhoh zel theih nan a tha hle<br/>ani.</li> </ul> |
|              | AMMIT                | Porcine<br>Reproductive<br>Respiratory<br>Syndrome<br>(PRRS). | 1. Vawknote emaw vawk lak hran.   |
|              | Adult stage          | Swine fever.  | 2. SF vaccines hi thla 2 hnua pek tur ani a,<br>chumi hnuah chuan kumtin thlaruk<br>danah pek chhunzawm tur ani.  |
| Cattle       | All age group        | SERCHH  | <ul> <li>Hun rei tak khua a ro avanga hnim<br/>hnah hring peh tur a awm loh laia<br/>bawngin an chaw ei in buk tawk tur<br/>leh an taksa tana mamawh tur atan<br/>buh kung urea molasses hmanga<br/>sawngbawl pek tur ani.</li> </ul>   |
|              | All age group        | Foot and Mouth<br>Disease (FMD)                               | • Kar 16 hnuah FMD vaccine pek a,<br>chuan thla tin thla 6 chhung<br>chhunzawm tur ani.   |
|              | Young stage          | Black Quarter<br>(BQ)   | <ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah<br/>emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum<br/>tin pek tur ani.</li> </ul>  |
| Poultry      | Litter<br>management | LAWNGTLAL   | Ar te hian hmun thawl nuam tawk,<br>chaw tha an mamawh tawk leh tui<br>thianghlim an mamawh tawk an hmu<br>tur ani a.   |
|              |                      |   | <b>6</b>   P a g e  |



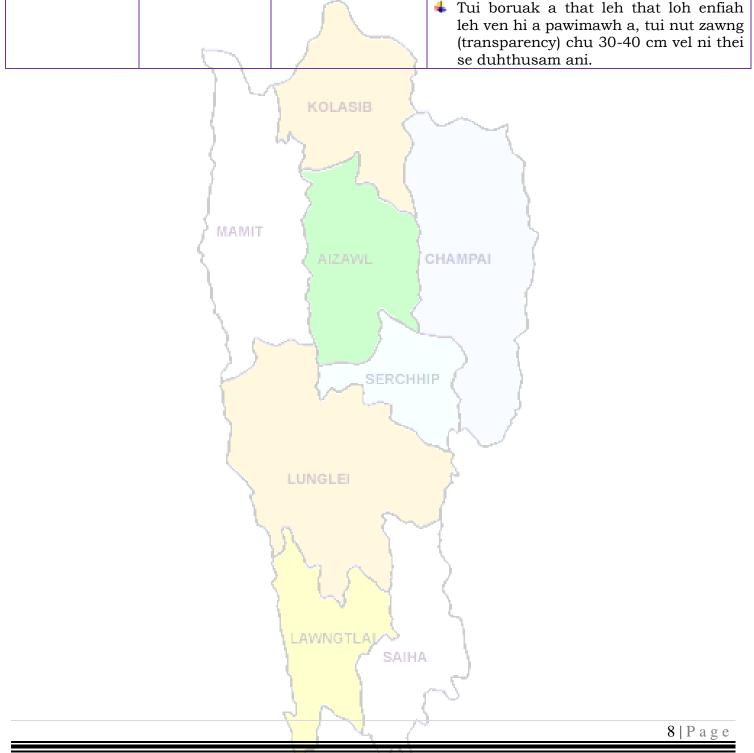
ICAR RESEARCH COMPLEX FOR NEH REGION

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| Preventive<br>measures   | 0-3 <sup>-rd</sup> week | <ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> <li>Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R<sub>2</sub>B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul> |
|--|-------------------------|--|
|  | 4 <sup>th</sup> weeks   | <b>4 Coccidiosis-</b> Amprolium or   |
| MAM  | 4-5 <sup>th</sup> Weeks | <ul> <li>coccidiostat</li> <li>Calcium tonic fortified with B<sub>12</sub></li> </ul>  |
| FISHERY  | AIZAWL                  | CHAMPAI  |
| Stocking and<br>monitoring<br>(Sangha<br>chhuah leh<br>enkawl) |                         | <ul> <li>Dila chhuah turin sangha no te hrisel<br/>tha hatchery atangin lei tur ani.<br/>Sangha note harh tha deuh leh natna<br/>(taksa var, harhlo, pangparh hmawr<br/>tawih) veilo tih hriat chian lei hram<br/>tum tur ani .</li> <li>Sangha note piang hlim (Spawn) leh a<br/>mit lawk (fry) te chu dam khawchhuak</li> </ul>  |
|  | LUNGLEI                 | (puitling) an tam zawk theina turin,<br>dilpui (grow out) a chhuah hmain<br>nursery leh rearing tuikhuah ah khawi<br>hmasak phawt a tha.<br>Sangha a lo than chak zawknan leh an<br>dam thatna turin diltuikhuah hectare<br>khat zel a zauah sangha note 8000<br>bawr vel chhuah hi a tha ber a ngaih<br>ani.  |
|  |                         | <ul> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur.</li> <li>Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.</li> </ul>  |
|  |                         | 710  |
|  |                         | 7   P a g e  |





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### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



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## AIZAWL CHAMPAI

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|                |    | Head & Sr. Scientist                   |                             |            |
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V LAWNGTLA] SAIHA

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R RESEARCH COMPLEX FOR NEH REGION ICA

Mizoram Centre, Kolasib- 796081, MIZORAM

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



### **District:** Lunglei

Bulletin No: - 717/2017/ Bulletin/English

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

| Parameters            | 12.07.2017                            | 13.07.2017   | 14.07.2017                            | 15.07.2017                  | 16.07.2017             |  |
|-----------------------|---------------------------------------|--|---------------------------------------|-----------------------------|------------------------|--|
| Rainfall (mm)         | 3                                     | 8  | 20                                    | 0                           | 0                      |  |
| Max Temp (°C)         | 32                                    | 31   | 20                                    | 30                          | 32                     |  |
| Min Temp (°C)         | 23                                    | 23   | 25                                    | 25                          | 25                     |  |
| Cloud Coverage        | Mainly cloudy                         | Mainly cloudy  | Mainly cloudy                         | Mainly cloudy               | Mainly cloudy          |  |
| Max RH (%)            | 98                                    | 99   | 100                                   | 99                          | 98                     |  |
| Min RH (%)            | 76                                    | 73   | 89                                    | 88                          | 72                     |  |
| Wind Speed (KmpH)     | 3                                     | 2  | 2                                     | 2                           | 2                      |  |
| *Wind Direction       | <u>5</u>                              | E  | S-E                                   | E                           | E                      |  |
|                       |                                       | Easterly- N-E, Easterly  | -                                     |                             |                        |  |
|                       |                                       | Vesterly- <mark>S-W</mark> , We  | • • • • • • • • • • • • • • • • • • • | •                           |                        |  |
| STATUS OF MONSO       | • •                                   | •  | · · · · ·                             | •                           | arenthesis)            |  |
| Aizawl- 384.87mm      |                                       |  | Saiha- 307.40 n                       |                             | 236.00mm               |  |
| (430.2mm)             | · · · · · · · · · · · · · · · · · · · | (359.89mm)   | (507.7r                               |                             | (428.1mm)              |  |
| Lawngtlai-291.20mm    |                                       | • •  |                                       |                             | -411.72mm              |  |
| (453.1mm)             |                                       | 465.14mm)  | (442.80r                              | nm)                         | (259.62mm)             |  |
| Weather summary       | of the past                           | Weather fored  | cast valid fron                       | 1 12 <sup>th</sup> July, 20 | 17 To 16 <sup>th</sup> |  |
| three day             | s                                     |  | July, 2                               | 017.                        |                        |  |
| Maximum Tem. (°C):2   |                                       | There are chanc  |                                       |                             | ll during the          |  |
| Minimum Tem. (°C):1   |                                       |  |                                       |                             |                        |  |
| Maximum RH (%):92-    |                                       | next 3 days. The maximum and minimum temperatures for the next 5 days may range for 29-32°C and 23-25°C. |                                       |                             |                        |  |
| Minimum RH (%):84-9   |                                       | Maximum relative humidity is expected in the range of 98-  |                                       |                             |                        |  |
| Wind Direction: Sout  |                                       | 100% and minimum may from 73-88%. Wind direction   |                                       |                             |                        |  |
| Cloud cover: Mainly o |                                       | would be easter  | •                                     |                             |                        |  |
| Wind speed: 3 km/h    |                                       | wind speed of 2  | <b>.</b>                              | <b>.</b>                    | 2                      |  |
|                       |                                       | <b></b>  |                                       | <b>.</b>                    | uuy sky wiii           |  |
| Rainfall: 22.4 mm     | ]                                     | prevail during th  | e next live day                       | s.                          |                        |  |
|                       |                                       | TT7 1-1  |                                       |                             |                        |  |
|                       |                                       | νεεκι  |                                       | rainfall: 32.0              |                        |  |
| NDVI for Mizoram      |                                       | North East Region 29 June 2017   | J J                                   | wet mildly dr               | y/mildly wet           |  |
|                       |                                       |  | conditions                            |                             |                        |  |
|                       |                                       | 0.2-0.3<br>0.3-0.4<br>0.3-0.4  | ound<br>Moderate                      |                             |                        |  |
|                       |                                       | 0.4-0.5<br>0.5-0.6<br>0.6-0.7<br>0.6-0.7   | Good<br>Very Good                     |                             |                        |  |
|                       |                                       | Agriculture vigour is good over most of the parts Northern As  | 47                                    |                             |                        |  |
|                       |                                       | Tripura and Meghalaya whereas moderate vigour is noticed in<br>of the region.                            | 255                                   |                             |                        |  |
|                       |                                       |  |                                       |                             |                        |  |
|                       |                                       |  | 19                                    |                             | 1   Page               |  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



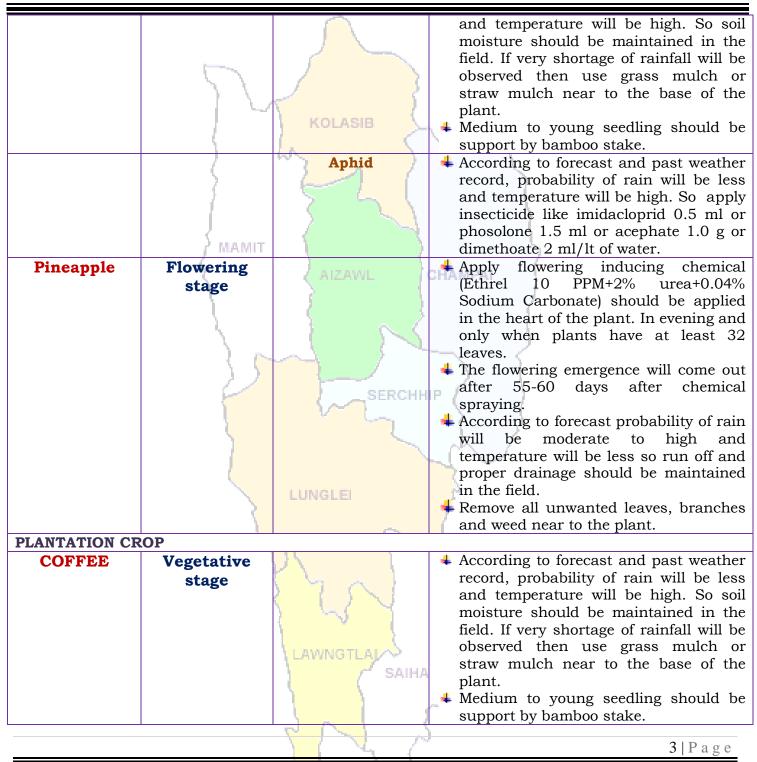
| Main One /    | Ster                                    | 0141                               |   |
|---------------|---|------------------------------------|---|
| Main Crop/    | Stage                                   | Cultural                           | Agricultural / Horticultural / animal   |
| Animal        |   | practices/ Pest/                   | husbandry advisories  |
| /Fisheries    |   | Diseases                           |   |
| FRUITS CROPS  |   |                                    |   |
| KHASI         | Seedling                                | S S                                | <b>4</b> According to forecast and past weather                                 |
| MANDARIN      | transplanting                           | KOLASIB                            | record, probability of rain will be less  |
| AND ACID      | stage                                   | 1                                  | and temperature will be high. So soil   |
| LIME          | Ţ                                       | What I                             | moisture should be maintained in the  |
|               | (                                       | 1 1 1                              | field. If very shortage of rainfall will be                                     |
| BANANA        | (                                       |                                    | observed then use grass mulch or  |
|               | ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) |                                    | straw mulch near to the base of the   |
|               |   |                                    | plant.  |
| STAR FRUIT    | A MAMIT                                 | 1 1 1                              | <b>4</b> Medium to young seedling should be                                     |
|               | 1                                       |                                    | support by bamboo stake.  |
| PLUM AND      | 2 C                                     | AIZAWL [                           | □ ↓ In the citrus belt, trees can be planted                                    |
| PEACH         | 1                                       |                                    | at any time; however, spring is the best  |
| PEACH         | 1                                       | 1 6 5                              | time for container grown plants.  |
|               |   |                                    | Standard-size trees should be spaced  |
|               |   |                                    | 12 to 25 feet apart and dwarf trees   |
|               |   |                                    | should be set 6 to 10 feet apart. The   |
|               | 1                                       |                                    | exact distance depends on the variety.  |
|               |   | SERCHH                             |   |
|               |   |                                    | the distance.   |
|               |   |                                    | Use split dose of fertilizer for normal   |
|               |   | Our and a site site and            | growth and development.   |
|               |   | Gummosis, citrus<br>Canker, Citrus | According to forecast and past weather record, probability of rain will be less |
|               |   | Lungreening,                       | and temperature will be high. So  |
|               |   | Dieback, Lamon                     | following pest problem will be high   |
|               | \\                                      | butterfly and leaf                 | <b>Lamon butterfly</b> - Spray monocrotophos                                    |
|               |   | minor                              | @0.04% @1.2 ml/lt of water.   |
|               |   |                                    | <b>Leaf minor-</b> Spray confidor 0.05% (0.5                                    |
|               |   |                                    | ml/lit of water) at each flush  |
|               |   |                                    | emergence.  |
|               |   |                                    | <b>4</b> Citrus Canker- Apply bacterimycin                                      |
|               |   | N ~ (                              | @0.6 g/lt of water.   |
| Passion Fruit | Vegetative                              |                                    | <b>4</b> Trail semi hard wood stem to bower                                     |
|               | stage                                   | SAIHA                              | structure   |
|               |   | ( SAIHA                            | 4 Clean near the base of the plant.   |
|               |   |                                    | According to forecast and past weather  |
|               |   |                                    | record, probability of rain will be less  |
|               |   |                                    | )   |
|               |   |                                    | 2   P a g e   |



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



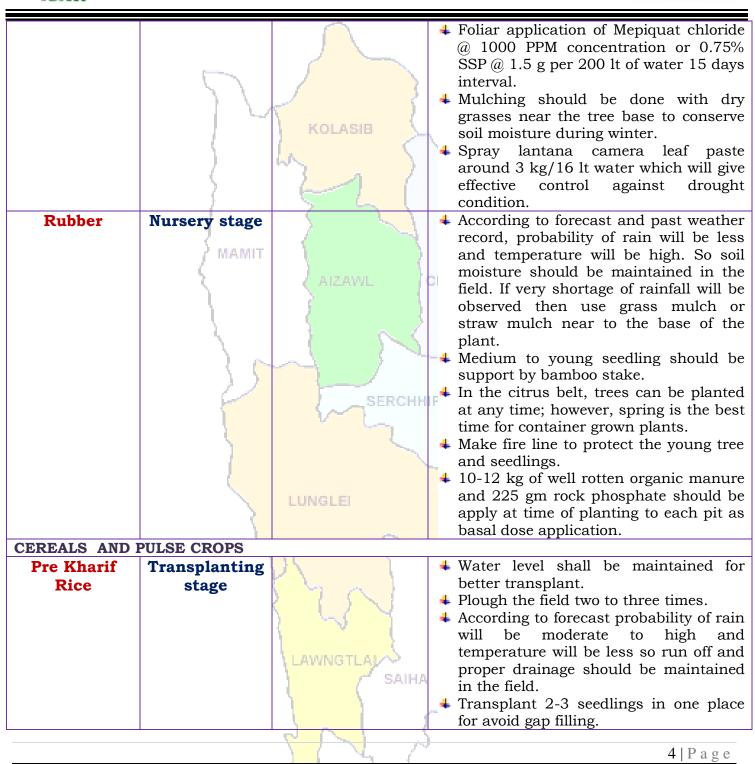




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## **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM



|                      | $\sum$               | Rice thrips and<br>rice leaf mites | <ul> <li>Spacing should be 20 cm row to row<br/>and 15 cm plant to plant.</li> <li>Keep some seedlings in nursery or<br/>corner of the field for gap filling.</li> <li>According to forecast probability of rain will<br/>be moderate to high and temperature will<br/>be less and humidity will high so possibility<br/>of rice thrips attack will high.</li> </ul> |
|----------------------|----------------------|------------------------------------|--|
| Jhum Rice            | Germination<br>stage |                                    | <ul> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water fo effective control.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and</li> </ul>   |
|                      |                      | AIZAWL<br>Rice stem borer          | <ul> <li>proper drainage should be maintained<br/>in the field.</li> <li>Don't use split dose of fertilizer for top<br/>dressing.</li> <li>According to forecast probability of rain will</li> </ul>   |
|                      | P                    | and leaf folder<br>SERCHH          | effective control.   |
| Maize<br>(Jhum)      | Vegetative<br>stage  | LUNGLEI                            | <ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> </ul>  |
| <b>VEGETABLE CRO</b> | )P                   |                                    |  |
| Cowpea               | Vegetative<br>stage  | LAWNGTLAK                          | <ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower structure</li> </ul>  |
|                      |                      |                                    | 5   P a g e  |
|                      |                      |                                    | 5 1 4 5 0  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM



| ICAR          |            |                 |   |
|---------------|------------|-----------------|---|
|               |            |                 | 4 Clean near the base of the plant.                           |
| Okra          | Vegetative |                 | <ul> <li>According to forecast probability of rain</li> </ul> |
| UNIA          | -          |                 | will be moderate to high and                                  |
|               | stage      |                 | temperature will be less so run off and                       |
|               | $\sim$     | 5               | 1   |
|               |            | r í             | proper drainage should be maintained                          |
|               |            | KOLASIB         | in the field.   |
|               |            |                 | Don't use split dose of fertilizer for top                    |
|               |            |                 | dressing.   |
|               |            |                 | 🔸 Trail semi hard wood stem to bower                          |
|               | >          |                 | structure   |
|               |            | 5 5 1           | Clean near the base of the plant.                             |
|               |            | Okra leafroller | Apply insecticide like imidacloprid 0.5 ml or                 |
|               |            |                 | phosolone 1.5 ml or acephate 1.0 g or                         |
|               | / MAMIT    |                 | dimethoate 2 ml/lt of water.                                  |
| Ginger and    | Vegetative | AIZAWL          | According to forecast probability of rain                     |
| turmeric      | stage      | CALCAVYE        | will be moderate to high and                                  |
|               |            |                 | temperature will be less so run off and                       |
|               |            | 5 5             | proper drainage should be maintained                          |
|               |            |                 | in the field.   |
|               |            |                 | 🚽 Apply well decomposed FYM/ pig                              |
|               |            |                 | manure @ 10-20 t/ha along with                                |
|               |            |                 | $120:80:60$ kg N, $P_2O_5$ and $K_2O/ha$                      |
|               |            | SERCHH          | P incorporate with soil for better                            |
|               |            |                 | development.  |
| Colocasia     | Vegetative |                 | According to forecast probability of rain                     |
|               | stage      |                 | will be moderate to high and                                  |
|               | Jugo       |                 | temperature will be less so run off and                       |
|               |            |                 | proper drainage should be maintained                          |
|               |            | LUNGLEI         | in the field.   |
|               |            |                 | 4 Apply well decomposed FYM/ pig                              |
|               |            | - <u>S</u> ~.   | manure @ 10-20 t/ha along with                                |
|               |            | N 1             | 120:80:60 kg N, $P_2O_5$ and $K_2O/ha$                        |
|               |            |                 | incorporate with soil for better                              |
|               |            |                 | development.  |
| ANIMAL HUSBEN | IDARY      |                 | /   |
| Pig           | All stages | Y I             | <b>4</b> As the weather gets colder, your pigs                |
| 6             |            |                 | energy requirement will increase, as                          |
|               |            |                 | they need more energy to keep warm.                           |
|               |            | SAIHA           | ♣ Regularly monitor their level of 'fitness'                  |
|               |            |                 | and increase their feed intake to                             |
|               |            |                 | maintain.   |
|               |            | 2010            |   |
|               |            | N.A             | <b>6</b>   P a g e  |
|               |            |                 | Uli agu   |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

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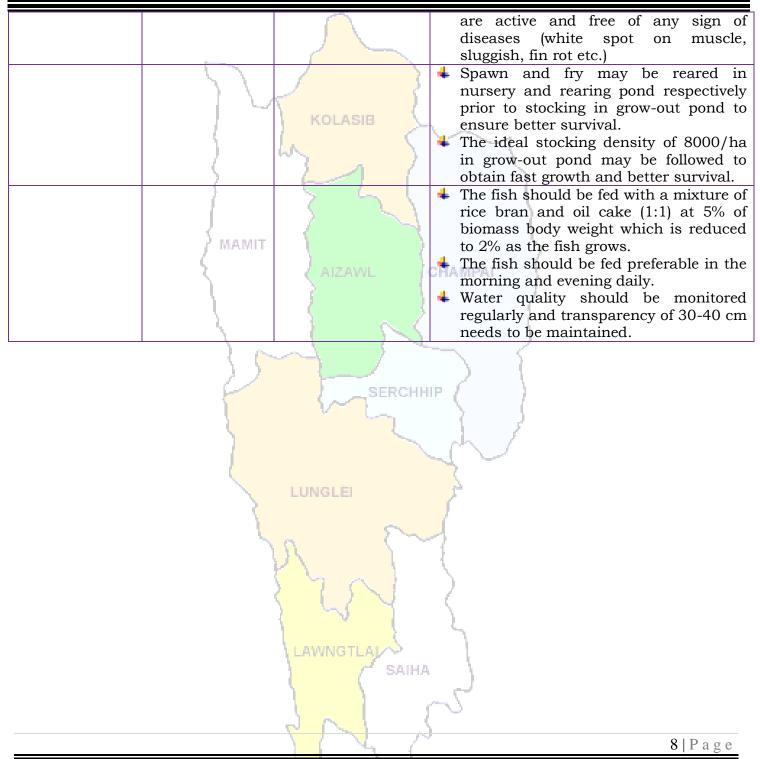
|         |                            | $\sim$                  | Fish oils are excellent for providing slow-release energy with the added  |
|---------|----------------------------|-------------------------|---|
|         |                            | Porcine                 | advantage of a high level of omega-3.<br>1. Culling of positive pigs or piglets.  |
|         |                            | Reproductive            | S F F F F S F F S   |
|         |                            | Respiratory             |   |
|         | 1                          | Syndrome<br>(PRRS).     | ~   |
|         | Adult stage                | Swine fever.            | 2. Vaccination of pigs with SF vaccines at 2<br>months and yearly interval/6 month<br>interval  |
| Cattle  | All age group              |                         | During either hot or heavy rainy<br>condition, animal are advised to keep<br>under shade.   |
|         |                            | AIZAWL                  | Vaccination is mandatory for the cattle<br>prior to monsoon to protect from<br>disease like Anthrax, Black Quarter,<br>Foot Mouth Disease, Duck Plague. |
| Poultry | Litter                     |                         | Birds require adequate space, sufficient  |
|         | management                 |                         | feed to meet their nutritional requirements and an adequate supply  |
|         |                            | SERCHH                  |   |
|         | 1                          |                         | 4 Good management and sanitation are  |
|         |                            |                         | the best ways to avoid infectious disease in poultry.   |
|         |                            |                         | Provide ample quantity of clean   |
|         |                            |                         | drinking water.   |
|         | 1                          | LUNGLEI                 | Avoid feeding of mouldy feed. Don't make sudden changes in feed   |
|         | Preventive                 | 0-3 rd week             | <b>Ranikhet Disease-</b> F1 vaccine at (1-6)  |
|         | measures                   | A                       | days of birth and R <sub>2</sub> B vaccine for adult birds.   |
|         |                            |                         | B complex with antibodies   |
|         |                            | 4 <sup>th</sup> weeks   | <b>4 Coccidiosis-</b> Amprolium or  |
|         |                            |                         | coccidiostat  |
| BIGHESH |                            | 4-5 <sup>th</sup> Weeks | <b>4</b> Calcium tonic fortified with $B_{12}$  |
| FISHERY | 04 a a <b>1</b> - 1        | Saiha                   | I Halthy fish and may be an and form  |
|         | Stocking and<br>monitoring |                         | Healthy fish seed may be procured from<br>hatcheries for stocking in the pond. It   |
|         | monitoring                 |                         | should be ensured that the fish seed  |
|         |                            |                         | <b>7</b>   P a g e  |
|         |                            |                         | , <u> </u> ± 4 5 0  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM







### **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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## AIZAWL CHAMPAI

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V LAWNGTLA] SAIHA

9 | P a g e



R RESEARCH COMPLEX FOR NEH REGION ICA

Mizoram Centre, Kolasib- 796081, MIZORAM

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



### **District:** Lunglei

## Bulletin No: - 717/2017/ Bulletin/Mizo

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

| Parameters                            | 12.07.2017                              | 13.07.2017   | 14.07.2017                | 15.07.2017                    | 16.07.2017    |  |
|---------------------------------------|---|--|---------------------------|-------------------------------|---------------|--|
|                                       |   |  |                           |                               |               |  |
| Rainfall (mm)                         | 3                                       | 8  | 20                        | 0                             | 0             |  |
| Max Temp (°C)                         | 32                                      | 31   | 29                        | 30                            | 32            |  |
| Min Temp (°C)                         | 23                                      | 23   | 25                        | 25                            | 25            |  |
| Cloud Coverage                        | Mainly cloudy                           | Mainly cloudy  | Mainly cloudy             | Mainly cloudy                 | Mainly cloudy |  |
| Max RH (%)                            | 98                                      | 99   | 100                       | 99                            | 98            |  |
| Min RH (%)                            | 76                                      | 73   | 89                        | 88                            | 72            |  |
| Wind Speed (KmpH)                     | 3                                       | 2  | 2                         | 2                             | 2             |  |
| *Wind Direction                       | E                                       | E  | S-E                       | E                             | E             |  |
| Northe                                | erly- <mark>N</mark> , North-E          | Casterly- <mark>N-E</mark> , Ea  | sterly- E, South          | -Easterly- <mark>S-E</mark> , |               |  |
| Souther                               | rly- <mark>S</mark> , South-W           | /esterly- <mark>S-W</mark> , W   | esterly-W, North          | -westerly- N-W.               |               |  |
| STATUS OF MONSO                       | OON- April 1-3                          | 0, 2017 (Percent   | t of deviation fr         | om normal in p                | arenthesis)   |  |
| Aizawl- 384.87mm                      | Champhai                                | - 105.48mm   | Saiha- 307.40 n           | nm Kolasib-                   | 236.00mm      |  |
| (430.2mm)                             | _                                       | 359.89mm)  | (507.7r                   | nm)                           | (428.1mm)     |  |
| Lawngtlai-291.20mm                    | Lunglei-                                | 326.00mm   | Mamit-204.87n             | nm Serchhip                   | -411.72mm     |  |
| (453.1mm)                             | - (1                                    | 465.14mm)  | (442.80r                  | nm)                           | (259.62mm)    |  |
| Weather summary                       | of the past                             | <b>12<sup>th</sup> July-</b> 1   | 6 <sup>th</sup> July, 201 | l7 chhunga s                  | sik leh sa    |  |
| three day                             | s                                       |  | dinhmun tu                |                               |               |  |
| · · · · · · · · · · · · · · · · · · · |   |  |                           |                               | • .1 • 11     |  |
| Maximum Tem. (°C):2                   |   | fun ni 3 chhu:   | 0                         |                               |               |  |
| Minimum Tem. (°C):1                   |   | tura beisei a ni. Khua a lum lai berin 29-32ºC a ni ang a. A   |                           |                               |               |  |
| Maximum RH (%):92-                    | 0.60/                                   | vawh lai ber in 23-25°C ni tura beisei a ni. RH san lai  |                           |                               |               |  |
| Minimum RH (%):84-                    |   | berin 98-100% leh a hniam lai berin 73-88% ni tur a rin  |                           |                               |               |  |
| Wind Direction: Sout                  |   | niin. Thli hi dai  | kar khatah 2-3            | 3 km vela chak                | in chhaklam   |  |
| Cloud cover: Mainly o                 |   | awi zawngin a tl   | eh rin a ni. A tl         | angpuiin tun n                | i nga chhung  |  |
| Wind speed: 3 km/h                    | r i i i i i i i i i i i i i i i i i i i | nian khawthian   |                           | 01                            | 0 0           |  |
|                                       | -                                       |  |                           |                               |               |  |
| Rainfall: 22.4 mm                     |   | Week   | lu oumulative             | rainfall: 32.0r               | n m           |  |
|                                       |   | WEEN   | ig cumulative             | rungun. 52.01                 |               |  |
|                                       |   |  | 36 4                      |                               | / 11 11       |  |
| NDVI for Mizoram                      |   | North East Region 29 June 201  |                           | wet mildly dr                 | y/mildly wet  |  |
|                                       |   | -53  | conditions                |                               |               |  |
|                                       |   |  | Moderate                  |                               |               |  |
|                                       |   | 0.5-0.4<br>0.5-0.6<br>0.6-0.7  | - Good                    |                               |               |  |
|                                       |   | ₩ Hg = 0.8-0.7   | - Very Good               |                               |               |  |
|                                       |   | Agriculture vigour is good over most of the parts Northern<br>Tripura and Meghalaya whereas moderate vigour is noticed<br>of the region. | n rest                    |                               |               |  |
|                                       |   |  |                           |                               |               |  |
|                                       |   |  | M                         |                               | 1   Page      |  |



### **ICAR RESEARCH COMPLEX FOR NEH REGION**

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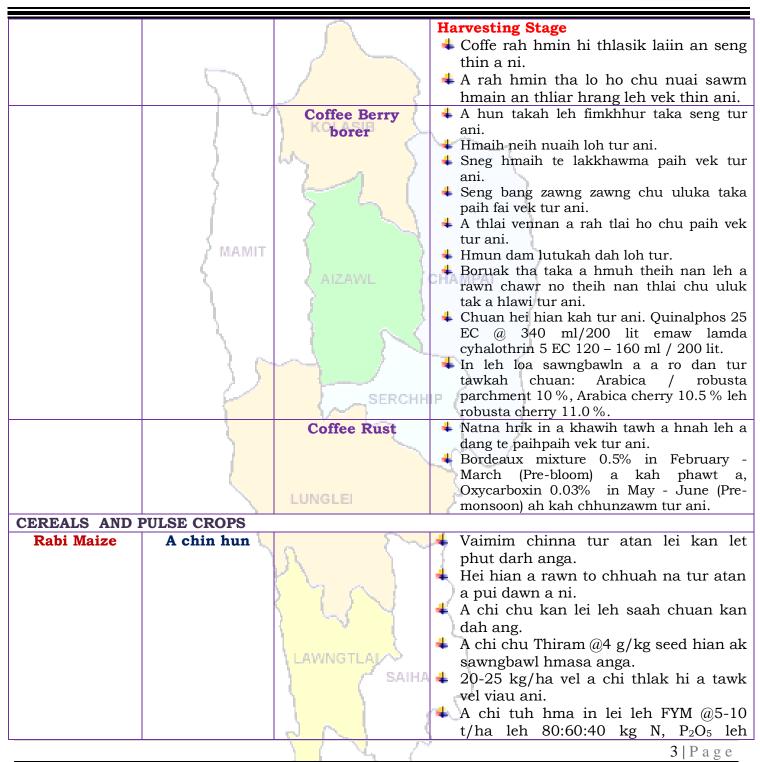
| Main Crop/    | Stage                                   | Cultural         | Agricultural / Horticultural/ animal   |
|---------------|---|------------------|--|
| Animal        |   | practices/ Pest/ | husbandry advisories   |
| /Fisheries    |   | Diseases         |  |
| FRUITS CROPS  |   |                  |  |
| KHASI         | A kui atanga                            | 5                | Thlasik laia thlai bul khoro lutuk tur   |
| MANDARIN      | a seng hun                              | KOLASIB          | vennan chuan hnim hnah hring tlai bul  |
| AND ACID      | 1                                       |                  | velah dahkhawm tur ani.  |
| LIME          | )                                       | W. Y             | 4 Thlai naupang deuah chuan chawlh   |
|               | (                                       | 1 1              | kar tin a tui pek thin tur ani.  |
| BANANA        | (                                       |                  | 4 Leia tha mamawh tawk a hmuh  |
|               | ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) |                  | theihna turin a hmunhma a hnim awm   |
|               | J                                       |                  | te thlawhfai thin tur ani.   |
| STAR FRUIT    | A MAMIT                                 | 1                | <b>4</b> A seng hma kar 6 chhung chu tui tha                                     |
|               | 1                                       |                  | taka pek hian a rah tla tur chelh nan  |
| PLUM AND      | <u> </u>                                | AIZAWL           | leh a rah than that nan te leh a rah   |
| PEACH         |   |                  | keh tur lakah t a veng thei ani.   |
| 1 211011      |   | Gummosis, citrus | + Temperture hniam lutuk leh hnawng vang   |
|               | N                                       | canker, citrus   | hian natna a a tam duh a . Soil bome natna                                       |
|               | ) 🔊                                     | greening and     | – laka vennan Bordeaux past hi thing zar leh                                     |
|               | \ <u>\</u>                              | Dieback          | a trangah te hnawih tur ani.   |
|               |   | Fruit fly RCHH   | 📲 Huan zau takah chuan a par tan tirh leh a                                      |
|               |   |                  | rah tan tirin chawlhkar hnih chhung chu  |
|               |   |                  | heng te hian enkawl tur ani: carbaryl 0.2  |
|               |   |                  | percent emaw malathion 0.15 percent<br>suspension containing sugar or jeggery at |
|               |   |                  | 10 g/l.  |
| PLANTATION CR | OP                                      |                  |  |
| COFFEE        | All stages                              | LUNGLEI          | Nursery stage  |
|               |   |                  | + Thlai chi thlak hma in Azospirillum leh  |
|               |   | a 8~             | Phosphobacterium a enkawl tur ani.   |
|               | · · · · · · · · · · · · · · · · · · ·   |                  | 🖊 A chi hi December – January ah hmun  |
|               |   |                  | 🔪 zawl/rualrem 1.5 - 2.5 cm a in hlatin  |
|               |   |                  | tlar mumal tak siam in chin tur ani.   |
|               |   |                  | + Chuan a chi chu lei tlem te a chhilh a   |
|               |   |                  | buhpawla khuh tur ani.   |
|               |   |                  | + Nitin tui pek tur ani a, a sat lutuka loh                                      |
|               |   | SAIHA            | nan niin a chhun loh nan zar hliah tur   |
|               |   | ( SAIHA          |  |
|               |   |                  | <b>4</b> Ni 45 hnu velah a tiak thin a,chu chu                                   |
|               |   |                  | bag ah an sawn chhuak leh thin ani.  |
|               |   |                  | )  |
|               |   | <u> </u>         | 2   P a g e  |



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM







**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM



| ICAR   |                                    |              |  |
|--|------------------------------------|--------------|--|
| Soybean, pea,<br>lentil toria,<br>breen gram<br>and black<br>gram<br>cultivation in<br>rice fellow<br>Potato | All stage<br>MAMIT<br>Sowing stage | Zero tillage | <ul> <li>K<sub>2</sub>O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> </ul> |
|  | P                                  | SERCHH       | hmasak tur ani.  |
| VEGETABLE CR   |                                    |              |  |
| Tomato   | Bacterial<br>Blight disease        |              | <ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .</li> </ul>  |
| Early Cole<br>crop   | Black spot<br>disease              | LAWNGTLAL    | <ul> <li>A than a that theih nan nikhat danah<br/>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula<br/>hnim ring vawm khawm hi tui pek</li> </ul>   |
|  |                                    |              | )  |
|  |                                    |              | 4   P a g e  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM



| Onion and capsicum       Nursery stage       Poly house       A than a that theih nan nikhat danah tui pek thin tur ani.         Onion and capsicum       Nursery stage       Poly house       A than a that theih nan nikhat danah tui pek thin tur ani.         MAMIT       Athan a that theih nan nikhat danah tui pek thin tur ani.       Thiai bal yawn hnawn nana thiai bula hnim ring yawn khawm hi tui pek zawhah dah tur ani.         MAMIT       Athan a that theih nan nikhat danah tui pek tain tur ani.         Phytopthora       Phytopthora         blight       A chi yen that nan thiram 3g/kg seed exawhah da tur ani.         French bean       Sowing stage         Carrot and radish       Sowing stage         Carrot and radish       Sowing stage         Lunct F       A than a that theih nan nikhat danah tui pek hin a thai bul vawn hnawn na tur ani.         Carrot and radish       Sowing stage         Lunct F       A than a that theih nan nikhat danah tui pek hin tur ani.         A than a that theih nan nikhat danah tui pek hin tur ani.       A than a that theih nan nikhat danah tui pek hin tur ani.         Lunct F       A than a that theih nan nikhat danah tui pek hin tur ani.         Lang Mawn ber ani.       Thia hana an chi ah chuan sik leh sa ya yangin a hanah thi dun a rawn awm thina, hei hi natan tuanghawn ber ani.         Halia hana lam chi leh zikhlum lam chi reng reng enkawl nan  | ICAR        |               |            |  |
|--|-------------|---------------|------------|--|
| Onion and<br>capsicum       Nursery stage       Poly house       A than a that theih nan nikhat danah<br>tui pek thin tur ani.         MAMIT       MAMIT       Thiai bul yawn hnawn nana thiai bul<br>hnim ring yawn khawm hi tui pek<br>zawhah dah tur ani.         MAMIT       MAMIT       Ataan         MAMIT       Ataan       Thiai chiina hmun (nursery) hi hnim a<br>to loh nan Pendimethalin @ 3.5ml hi<br>tui liter 1 / zelah pawlh a kah hi a tha<br>Hhe ani.         Phytopthora<br>blight       Phytopthora<br>blight       A chi ven that nan thiram 3g/kg seed<br>emaw Trichoderma viride 4g+ metalaxyl 4g<br>(Apron)/ kg seed hi a tha hle ani         French bean       Sowing stage       A chi ven that nan thiram 3g/kg seed<br>enaw Trichoderma viride 4g+ metalaxyl 4g<br>(Apron)/ kg seed hi a tha hle ani         Carrot and<br>radish       Sowing stage       A than a that theih nan tui pek hma<br>in lei rin pan hmasak tur ani.         Carrot and<br>radish       Sowing stage       A than a that theih nan nikhat danah<br>tui pek hnuah theia bul yawn hnawn<br>na tur siam tur ani.         Carrot and<br>radish       Sowing stage       A than a that theih nan nikhat danah<br>tui pek hnuah theia bul yawn hnawn<br>na tur siam tur ani.         Tui pek hnuah theia bul yawn hnawn<br>na tur siam tur ani.       Thi a than an nikhat danah<br>tui pek thin tur ani.         Tui pek hnuah thei ha chuan sik leh<br>sa vangin a hnah ah thil dum a<br>rawn awm thina, hei hi natna<br>tlanglawn ber ani.         Thi han lam chi leh zikhlum lam<br>chi reng reng enkawl nan<br>Mancozeb @ 2gm ah tui leter 1<br>pawlha kah tur ani. <th></th> <th>2</th> <th></th> <th><ul> <li>Thlai hna lam chi leh zikhlum lam<br/>chi reng reng enkawl nan Mancozeb</li> <li>@ 2gm ah tui leter 1 pawlha kah</li> </ul></th> |             | 2             |            | <ul> <li>Thlai hna lam chi leh zikhlum lam<br/>chi reng reng enkawl nan Mancozeb</li> <li>@ 2gm ah tui leter 1 pawlha kah</li> </ul>   |
| capsicum       Image: Capsicum         iui pek thin tur ani.       Thia bul yawn hnawn nana thlai bula hnim ring yawm khawm hi tui pek zawhah dah tur ani.         MAMIT       MAMIT         MAMIT       Atam         Phytopthora       Image: Atam         Bight       4         Atam       Sowing stage         Carrot and radish  | Onion and   | Nursery stage |            |  |
| MAMIT       Aramit       to loh nan Pendimethalin @ 3.5ml hi tu liter 1 zelah pawh a kah hi a tha tha hie ani.         Phytopthora blight       Phytopthora blight       A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha he ani.         French bean       Sowing stage       Image: the table ani.         Carrot and radish       Sowing stage       Image: the table ani.         Carrot and radish       Sowing stage       Image: the table ani.         Carrot and radish       Sowing stage       Image: the table ani.         Carrot and radish       Sowing stage       Image: the table ani.         Carrot and radish       Sowing stage       Image: the table ani.         Carrot and radish       Sowing stage       Image: the table ani.         Image: table ani.       Image: table ani.       Image: table ani.         Image: table ani.       Image: table ani.       Image: table ani.         Image: table ani.       Image: table ani.       Image: table ani.         Image: table ani.       Image: table ani.       Image: table ani.         Image: table ani.       Image: table ani.       Image: table ani.         Image: table ani.       Image: table ani.       Image: table ani.         Image: table ani.       Image: table ani.       Image: table ani. <td< th=""><th></th><th>Hursery stage</th><th>The second</th><th><ul> <li>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula<br/>hnim ring vawm khawm hi tui pek<br/>zawhah dah tur ani.</li> </ul></th></td<>  |             | Hursery stage | The second | <ul> <li>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula<br/>hnim ring vawm khawm hi tui pek<br/>zawhah dah tur ani.</li> </ul>  |
| French beanSowing stageSowing stageTui pek a hihnah hringa khuh tur aniCarrot and<br>radishSowing stageA than duna theih nan tui pek hna<br>in lei rin pan hmasak tur ani.Carrot and<br>radishSowing stageA than duna theih nan nikhat danah<br>tui pek hia tha ha ani.Carrot and<br>radishSowing stageA than a that theih nan nikhat danah<br>tui pek hin tur ani.Carrot and<br>radishSowing stageA than a that theih nan nikhat danah<br>tui pek hin tur ani.Carrot and<br>radishSowing stageA than a that theih nan nikhat danah<br>tui pek hin tur ani.Carrot and<br>radishSowing stageA than a that theih nan nikhat danah<br>tui pek hin tur ani.Tui pek nuah thai bul vawn hnawn<br>na tur siam tur ani.A than a that theih nan nikhat danah<br>tui pek hin tur ani.Tui pek nuah thai bul vawn hnawn<br>na tur siam tur ani.Thia hna lam chi leh zikhlum lam<br>chi reng reng enkawl nam<br>Mancozeb @ 2gm ah tui leter 1<br>pawlha kah tur ani.  |             |               | AIZAWL     | to loh nan Pendimethalin @ 3.5ml hi<br>tui liter 1 zelah pawlh a kah hi a tha<br>CHA hle ani.  |
| French beanSowing stageImage: Carrot and radishTui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.Carrot and radishSowing stageA than duna theih nan nikhat danah tui pek thin tur ani.Carrot and radishSowing stageA than a that theih nan nikhat danah tui pek thin tur ani.Carrot and radishSowing stageA than a that theih nan nikhat danah tui pek thin tur ani.Tui pek nuah thlai bul vawn hnawn na tur siam tur ani.Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.Tui pek nuah thlai bul vawn hnawn na tur siam tur ani.Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nam Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.  |             | 35            |            | emaw Trichoderma viride 4g+ metalaxyl 4g<br>(Apron)/ kg seed hi a tha hle ani<br>Hneh taka 1% Bordeaux chawhpawlh<br>emaw 2 g captan emaw 3 copper<br>oxychloride a tui liter 1 hi 10-15 DAS a   |
| radish       tui pek thin tur ani.         Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.         Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.         Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nam Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.  | French bean | Sowing stage  |            | <ul> <li>Tui pek a hnihnah hringa khuh tur ani</li> <li>a. than a that theih nan tui pek hma</li> <li>in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh</li> <li>na turin a kung bulah lei vur chhoh zel</li> </ul>  |
|  |             | Sowing stage  | LAWINGTLAL | <ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1</li> </ul> |
|  |             |               | 201        |  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

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| ANIMAL HUSBE | NDARY                |   |  |
|--------------|----------------------|---|--|
| Pig          | All stages           | KOLASIB   | <ul> <li>Khua a vawh hian vawk hian an mahni<br/>in tih lumna tur atan chakna an<br/>mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah<br/>renga, a chaw ei tur tlem tlema tih tam<br/>hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam<br/>em a vangin an chakna muangchanga<br/>a in siam chhoh zel theih nan a tha hle</li> </ul> |
|              | MAMIT                | Porcine<br>Reproductive<br>Respiratory<br>Syndrome<br>(PRRS). | ani.<br>1. Vawknote emaw vawk lak hran.<br>CHAMPAI   |
|              | Adult stage          | Swine fever.  | 2. SF vaccines hi thla 2 hnua pek tur ani a,<br>chumi hnuah chuan kumtin thlaruk<br>danah pek chhunzawm tur ani.   |
| Cattle       | All age group        | SERCHH  | <ul> <li>Hun rei tak khua a ro avanga hnim<br/>hnah hring peh tur a awm loh laia<br/>bawngin an chaw ei in buk tawk tur<br/>leh an taksa tana mamawh tur atan<br/>buh kung urea molasses hmanga<br/>sawngbawl pek tur ani.</li> </ul>  |
|              | All age group        | Foot and Mouth<br>Disease (FMD)                               | • Kar 16 hnuah FMD vaccine pek a,<br>chuan thla tin thla 6 chhung<br>chhunzawm tur ani.  |
|              | Young stage          | Black Quarter<br>(BQ)   | <ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah<br/>emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum<br/>tin pek tur ani.</li> </ul>   |
| Poultry      | Litter<br>management | LAWNGTLAL   | Ar te hian hmun thawl nuam tawk,<br>chaw tha an mamawh tawk leh tui<br>thianghlim an mamawh tawk an hmu<br>tur ani a.  |
|              |                      | RAT.  | <b>6</b>   P a g e   |



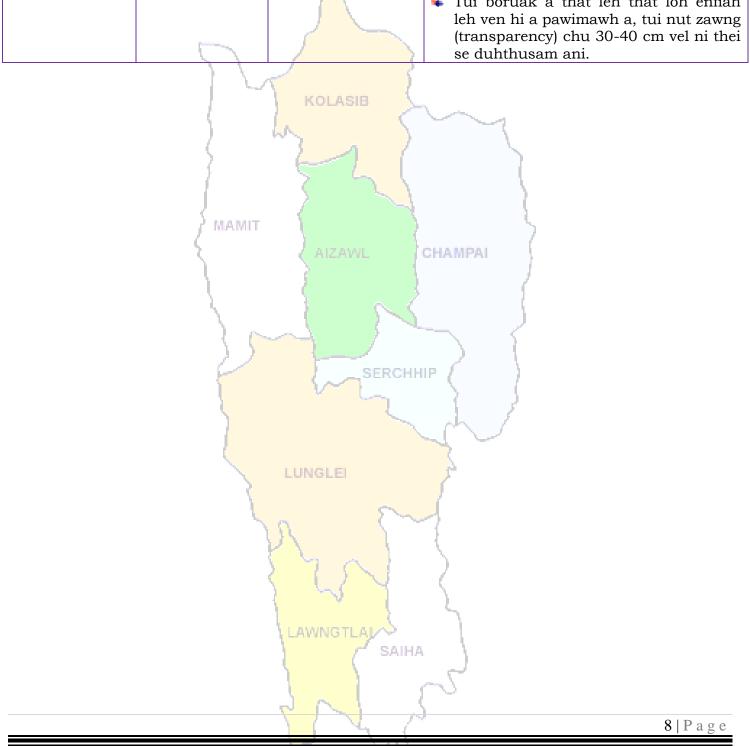
ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



|         | 2  |  | <ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> </ul>  |
|---------|--|--|--|
|         | Preventive<br>measures   | 0-3 rd week                                      | <ul> <li>Ranikhet Disease- an pian atanga ni<br/>1-6 ah F1 vaccine pek tur ani a, chuan<br/>a puitlingh chuan R<sub>2</sub>B vaccine pek tur<br/>ani.</li> <li>B complex with antibodies</li> </ul>  |
|         |  | 4 <sup>th</sup> weeks<br>4-5 <sup>th</sup> Weeks | <ul> <li>Coccidiosis- Amprolium or coccidiostat</li> <li>Calcium tonic fortified with B<sub>12</sub></li> </ul>  |
| FISHERY |  |  | CHAMPAI  |
|         | Stocking and<br>monitoring<br>(Sangha<br>chhuah leh<br>enkawl) |  | <ul> <li>Dila chhuah turin sangha no te hrisel<br/>tha hatchery atangin lei tur ani.<br/>Sangha note harh tha deuh leh natna<br/>(taksa var, harhlo, pangparh hmawr<br/>tawih) veilo tih hriat chian lei hram<br/>tum tur ani.</li> </ul>  |
|         |  | LUNGLEI  | <ul> <li>Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha.</li> <li>Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare</li> </ul> |
|         |  | AM   | khat zel a zauah sangha note 8000<br>bawr vel chhuah hi a tha ber a ngaih<br>ani.  |
|         |  |  | Sangha te chu favai leh oik cake zat leh<br>zat (1:1) a chawh pawlhin an taksa<br>rihzawng za zel ah panga ang vel a<br>chaw pek thin tur ani a, sangha a lo<br>len deuh hnu ah za zel a pahnih angin  |
|         |  |  | Sangha te chu nitin zing leh tlaiah<br>chaw pek thin tur ani.  |
|         | <u> </u>   | 175  |  |
|         |  |  | 7   P a g e  |





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### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



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## AIZAWL CHAMPAI

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V LAWNGTLA] SAIHA

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R RESEARCH COMPLEX FOR NEH REGION ICA

Mizoram Centre, Kolasib- 796081, MIZORAM

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





### **District: Mamit**

Bulletin No: - 717/2017/ Bulletin/English

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

| Parameters             | 12.07.2017                            | 13.07.2017   | 14.07.2017      | 15.07.2017                            | 16.07.2017             |
|------------------------|---------------------------------------|--|-----------------|---------------------------------------|------------------------|
|                        | 24                                    | 13.07.2017   | 14.07.2017      | 0                                     |                        |
| Rainfall (mm)          | 30                                    | 27   | 29              | 31                                    | 0 33                   |
| Max Temp (°C)          | 23                                    | 27   | 29              | 24                                    | 25                     |
| Min Temp (°C)          |                                       |  | ·               |                                       |                        |
| Cloud Coverage         | Partially clear                       | Partially clear  | Mainly cloudy   | Mainly cloudy                         | Partially clear        |
| Max RH (%)             | 99                                    | 99   | 99              | 98                                    | 97                     |
| Min RH (%)             | 76                                    | 90   | 87              | 90                                    | 69                     |
| Wind Speed (KmpH)      | 2                                     | 3  | 2               | 2                                     | 2                      |
| *Wind Direction        | E                                     | S-E  | E               | S-E                                   | E                      |
|                        |                                       | Easterly- N-E, Easterly-   |                 |                                       |                        |
|                        |                                       | Vesterly- <mark>S-W</mark> , We  |                 |                                       |                        |
| STATUS OF MONSO        |                                       |  |                 |                                       |                        |
| Aizawl- 384.87mm       | · · · · · · · · · · · · · · · · · · · |  | Saiha- 307.40 n |                                       | 236.00mm               |
| (430.2mm)              |                                       | (359.89mm)   | (507.7n         | •                                     | (428.1mm)              |
| Lawngtlai-291.20mm     |                                       |  | Mamit-204.87n   | · · · · · · · · · · · · · · · · · · · | -411.72mm              |
| (453.1mm)              |                                       | 465.14mm)  | (442.80n        |                                       | (259.62mm)             |
| Weather summary        | · · · · · · · · · · · · · · · · · · · | Weather fore   |                 | 1 12 <sup>th</sup> July, 20           | 17 To 16 <sup>th</sup> |
| three day              |                                       |  | July, 2         | 017.                                  |                        |
| Maximum Tem. (°C):2    |                                       | There are chanc  | es of moderate  | e to light rainfa                     | ll during the          |
| Minimum Tem. (°C):1    |                                       | next 3 days. The   | maximum and     | l minimum tem                         | peratures for          |
| Maximum RH (%):92-     |                                       | the next 5 day   | s may range     | for 27-33°C a                         | nd 23-25°C.            |
| Minimum RH (%):72-     | <b>85%</b>                            | Maximum relativ  | 5 0             |                                       |                        |
| Wind Direction: Sout   | heasterly                             | 99% and minir  |                 |                                       |                        |
| Cloud cover: Mainly of | cloudy                                | would be eas   | •               |                                       |                        |
| Wind speed: 3 km/hr    |                                       | southeasterly an   | 2               | <b>.</b>                              | <i>u</i>               |
|                        |                                       | hour. Mainly clo   | 0               | <b>–</b>                              | <u> </u>               |
| Rainfall: 26.6 mm      |                                       | <i>.</i>   | Judy sky will j | prevan during                         | the next live          |
|                        |                                       | days.  |                 |                                       |                        |
|                        |                                       |  |                 |                                       |                        |
|                        |                                       | Weekl  |                 | rainfall: 43.0                        |                        |
| NDVI for Mizoram       |                                       | North East Region 29 June 2017   | J J             | wet mildly dr                         | y/mildly wet           |
|                        |                                       | bare sol / wet   | conditions      |                                       |                        |
|                        |                                       | 0.3-0.4 Moderate   |                 |                                       |                        |
|                        |                                       | 0.5-0.6   0.00<br>0.6-0.7   Very Good  |                 |                                       |                        |
|                        |                                       | Agriculture vigour is good over most of the parts Northern Assam<br>Tripura and Meghalaya whereas moderate vigour is noticed in rest<br>of the region. |                 |                                       |                        |
|                        |                                       |  |                 |                                       |                        |
|                        |                                       |  | 1               |                                       | 1   D o o o            |
|                        |                                       |  | (               |                                       | 1   P a g e            |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



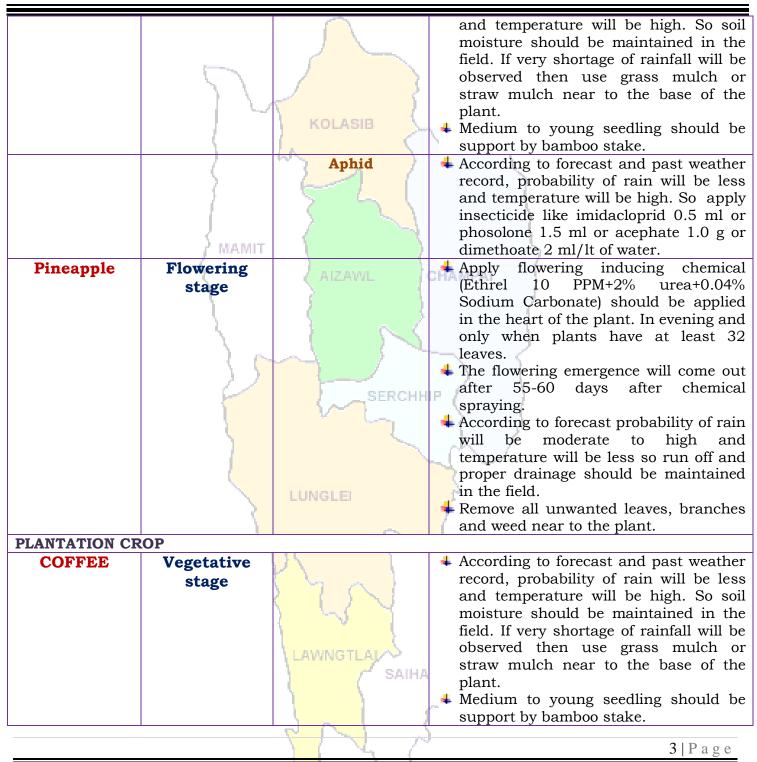
| Main Oran /   | Store                                   | Cultural           | Agriculture 1 / Henticulture 1 / optime 1   |
|---------------|---|--------------------|---|
| Main Crop/    | Stage                                   |                    | Agricultural / Horticultural / animal   |
| Animal        |   | practices/ Pest/   | husbandry advisories  |
| /Fisheries    |   | Diseases           |   |
| FRUITS CROPS  |   |                    |   |
| KHASI         | Seedling                                | 5                  | <b>4</b> According to forecast and past weather                                     |
| MANDARIN      | transplanting                           | KOLASIB            | record, probability of rain will be less  |
| AND ACID      | stage                                   |                    | and temperature will be high. So soil   |
| LIME          | ]                                       | in N               | moisture should be maintained in the  |
|               | (                                       | 1 1                | field. If very shortage of rainfall will be   |
| BANANA        | (                                       |                    | observed then use grass mulch or  |
|               | ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) |                    | straw mulch near to the base of the   |
|               | J                                       |                    | plant.  |
| STAR FRUIT    | A MAMIT                                 |                    | 4 Medium to young seedling should be  |
|               | (                                       |                    | support by bamboo stake.  |
| PLUM AND      | <u> </u>                                | AIZAWL             | In the citrus belt, trees can be planted  |
| PEACH         |   |                    | at any time; however, spring is the best time for container grown plants.           |
|               |   | - ς - <u>γ</u>     | 4 Standard-size trees should be spaced  |
|               |   |                    | 12 to 25 feet apart and dwarf trees   |
|               | ) 🔊                                     |                    | should be set 6 to 10 feet apart. The   |
|               | L \ \ \                                 |                    | exact distance depends on the variety.  |
|               |   | SERCHH             |   |
|               |   |                    | the distance.   |
|               |   |                    | <b>4</b> Use split dose of fertilizer for normal                                    |
|               |   |                    | growth and development.   |
|               |   | Gummosis, citrus   | According to forecast and past weather  |
|               |   | Canker, Citrus     | record, probability of rain will be less  |
|               |   | LUNgreening,       | fand temperature will be high. So   |
|               | 2                                       | Dieback, Lamon     | following pest problem will be high   |
|               | 1                                       | butterfly and leaf | <b>Lamon butterfly-</b> Spray monocrotophos   |
|               |   | n minor            | @0.04% @1.2 ml/lt of water.   |
|               |   |                    | <b>Leaf minor</b> - Spray confidor 0.05% (0.5                                       |
|               |   | 5 A C              | ml/lit of water) at each flush  |
|               |   |                    | emergence.  |
|               |   |                    | <b>Citrus Canker-</b> Apply bacterimycin  |
| Passion Fruit | Vogototino                              |                    | <ul> <li>@0.6 g/lt of water.</li> <li>Trail semi hard wood stem to bower</li> </ul> |
| rassion riuit | Vegetative<br>stage                     |                    | atmiatiira  |
|               | sidge                                   | / SAIHA            | Clean near the base of the plant.   |
|               |   |                    | According to forecast and past weather  |
|               |   |                    | record, probability of rain will be less  |
| L             |   |                    |   |
|               |   |                    | 2   P a g e   |



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Mizoram Centre, Kolasib- 796081, MIZORAM



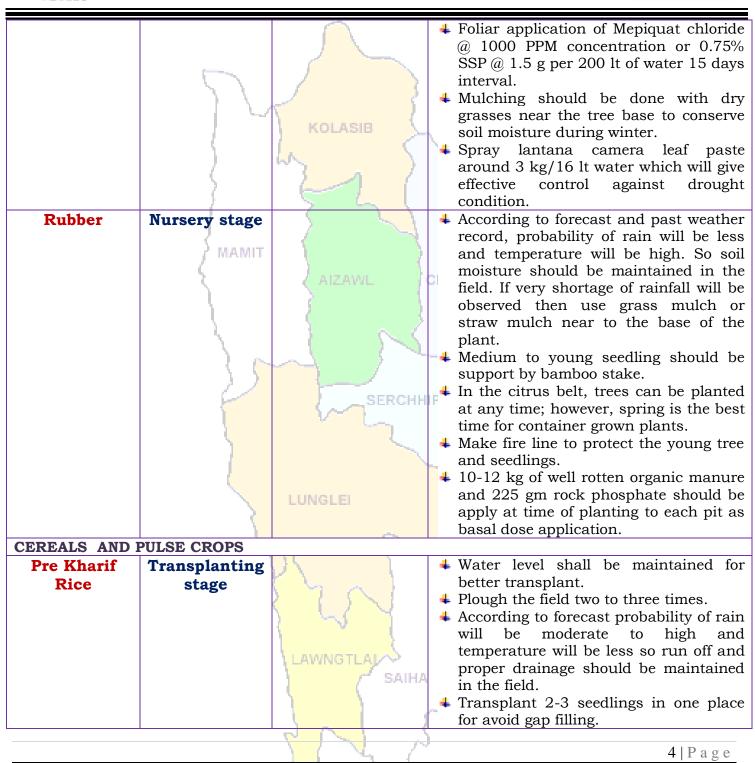




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Mizoram Centre, Kolasib- 796081, MIZORAM







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|                 |                               | $\wedge$                                     | <ul> <li>Spacing should be 20 cm row to row and 15 cm plant to plant.</li> <li>Keep some seedlings in nursery or cormon of the field for gap filling.</li> </ul>  |
|-----------------|-------------------------------|--|---|
|                 |                               | Rice thrips and<br>rice leaf mites           | <ul> <li>corner of the field for gap filling.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility</li> </ul>   |
|                 |                               | 222  | <ul> <li>of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water<br/>or Imidachloroprid 1.5 ml/lt of water for<br/>effective control.</li> </ul>   |
| Jhum Rice       | Germination<br>stage<br>MAMIT | AIZAWL                                       | According to forecast probability of rain<br>will be moderate to high and<br>temperature will be less so run off and<br>proper drainage should be maintained<br>in the field.   |
|                 |                               |  | Don't use split dose of fertilizer for top dressing.  |
|                 | 25                            | Rice stem borer<br>and leaf folder<br>SERCHH | <ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul> |
| Maize<br>(Jhum) | Vegetative<br>stage           | LUNGLEI                                      | <ul> <li>According to forecast probability of rain<br/>will be moderate to high and<br/>temperature will be less so run off and<br/>proper drainage should be maintained<br/>in the field.</li> <li>Don't use split dose of fertilizer for top<br/>dressing.</li> </ul>                                   |
| VEGETABLE CRO   | OP                            |  | 0   |
| Cowpea          | Vegetative<br>stage           | LAWNGTLAL                                    | <ul> <li>According to forecast probability of rain<br/>will be moderate to high and<br/>temperature will be less so run off and<br/>proper drainage should be maintained<br/>in the field.</li> </ul>   |
|                 |                               | SAIHA  | <ul> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower structure</li> </ul>  |
|                 |                               | Y X Z  | 5   P a g e   |



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Mizoram Centre, Kolasib- 796081, MIZORAM



|               |                          |                 | 4 Clean near the base of the plant.                           |
|---------------|--------------------------|-----------------|---|
| Okra          | Vegetative               |                 | <ul> <li>According to forecast probability of rain</li> </ul> |
| ONIA          | •                        |                 | will be moderate to high and                                  |
|               | stage                    |                 | temperature will be less so run off and                       |
|               |                          | 5               | -   |
|               |                          |                 | proper drainage should be maintained in the field.            |
|               |                          | KOLASIB         |   |
|               |                          |                 | Don't use split dose of fertilizer for top                    |
|               |                          | W N             | dressing.   |
|               | (                        | 3 4 /           | 4 Trail semi hard wood stem to bower                          |
|               | 2                        |                 | structure   |
|               |                          |                 | Clean near the base of the plant.                             |
|               |                          | Okra leafroller | 4 Apply insecticide like imidacloprid 0.5 ml or               |
|               | <pre> &lt;</pre>         |                 | phosolone 1.5 ml or acephate 1.0 g or                         |
|               | / MAMIT                  |                 | dimethoate 2 ml/lt of water.                                  |
| Ginger and    | Vegetative               | AIZAWL          | According to forecast probability of rain                     |
| turmeric      | stage                    | Concorrice .    | will be moderate to high and                                  |
|               |                          | 5               | temperature will be less so run off and                       |
|               |                          | 5               | proper drainage should be maintained                          |
|               | N 1                      |                 | in the field.   |
|               |                          |                 | Apply well decomposed FYM/ pig                                |
|               |                          |                 | manure @ 10-20 t/ha along with                                |
|               | 1                        |                 | 120:80:60 kg N, $P_2O_5$ and $K_2O/ha$                        |
|               |                          | SERCHH          | incorporate with soil for better                              |
|               |                          |                 | development.  |
| Colocasia     | Vegetat <mark>ive</mark> |                 | 4 According to forecast probability of rain                   |
|               | stage                    |                 | will be moderate to high and                                  |
|               |                          |                 | temperature will be less so run off and                       |
|               |                          | LUNCLEI         | proper drainage should be maintained                          |
|               |                          | LUNGLEI         | in the field.   |
|               |                          |                 | Apply well decomposed FYM/ pig                                |
|               |                          | ~ ~             | manure @ 10-20 t/ha along with                                |
|               | 1                        |                 | $120:80:60$ kg N, $P_2O_5$ and $K_2O/ha$                      |
|               |                          |                 | incorporate with soil for better                              |
|               |                          |                 | ) development.  |
| ANIMAL HUSBEN | IDARY                    |                 | L 2 L   |
| Pig           | All stages               | Y               | 4 As the weather gets colder, your pigs'                      |
| Ö             |                          |                 | energy requirement will increase, as                          |
|               |                          | LAWNGTLAL       | they need more energy to keep warm.                           |
|               |                          | / SAIHA         | ♣ Regularly monitor their level of 'fitness'                  |
|               |                          |                 | and increase their feed intake to                             |
|               |                          |                 | maintain.   |
|               | l                        | 2010            |   |
|               |                          |                 | 6   P a g e   |
|               |                          |                 |   |



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

l based on District wise Weather Forecast reco Guwahati)



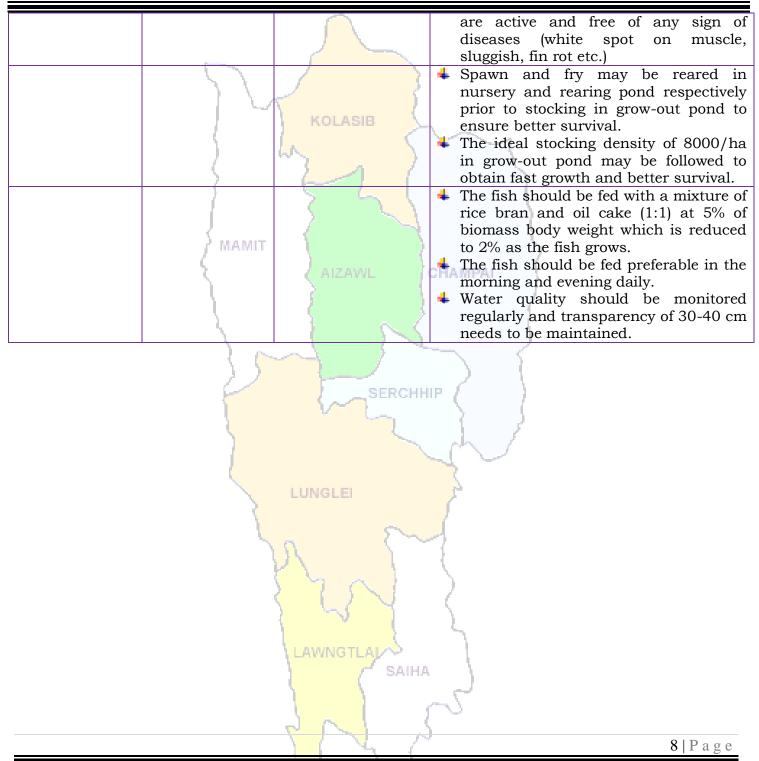
|         |                         | $\wedge$  | Fish oils are excellent for providing<br>slow-release energy with the added<br>advantage of a high level of omega-3.  |
|---------|-------------------------|---|---|
|         |                         | Porcine<br>Reproductive<br>Respiratory<br>Syndrome<br>(PRRS). | <ol> <li>Culling of positive pigs or piglets.</li> </ol>  |
|         | Adult stage             | Swine fever.  | 2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval  |
| Cattle  | All age group           | AIZAWL  | <ul> <li>During either hot or heavy rainy condition, animal are advised to keep under shade.</li> <li>Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.</li> </ul> |
| Poultry | Litter<br>management    | LUNGLEI   | Birds require adequate space, sufficient<br>feed to meet their nutritional<br>requirements and an adequate supply   |
|         | Preventive<br>measures  | 0-3 rd week   | <ul> <li>Ranikhet Disease- F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> <li>B complex with antibodies</li> </ul>  |
|         |                         | 4 <sup>th</sup> weeks   | <b>Coccidiosis-</b> Amprolium or coccidiostat   |
|         |                         | 4-5 <sup>th</sup> Weeks                                       | <b>4</b> Calcium tonic fortified with B <sub>12</sub>   |
| FISHERY | Stocking and monitoring | SAIHA   | Healthy fish seed may be procured from<br>hatcheries for stocking in the pond. It<br>should be ensured that the fish seed   |
|         |                         |   | 7   P a g e   |



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



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## AIZAWL CHAMPAI

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V LAWNGTLA] SAIHA

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM

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



### **District: Mamit**

## Bulletin No: - 717/2017/ Bulletin/Mizo

Period: 12 July - 16 July, 2017

### Date of issue: 11th July, 2017

|  |   | 1  |  |  |   |
|--|---|--|--|--|---|
| Parameters   | 12.07.2017                                  | 13.07.2017   | 14.07.2017   | 15.07.2017   | 16.07.2017  |
| Rainfall (mm)  | 24  | 12   | 7  | 0  | 0   |
| Max Temp (°C)  | 30  | 27   | 29   | 31   | 33  |
| Min Temp (°C)  | 23  | 23   | 24   | 24   | 25  |
| Cloud Coverage   | Partially clear                             | Partially clear  | Mainly cloudy  | Mainly cloudy  | Partially clear   |
| Max RH (%)   | 99  | 99   | 99   | 98   | 97  |
| Min RH (%)   | 76  | 90   | 87   | 90   | 69  |
| Wind Speed (KmpH)  | 2   | 3  | 2  | 2  | 2   |
| *Wind Direction  | E   | S-E  | E  | S-E  | E   |
|  | ly- <mark>S</mark> , South-W                | Easterly- <mark>N-E</mark> , Eas<br>Vesterly- <mark>S-W</mark> , We  | sterly-W, North  | -westerly- N-W.  | arenthesis)   |
| Aizawl- 384.87mm<br>(430.2mm)<br>Lawngtlai-291.20mm  | Champhai                                    | - 105.48mm (359.89mm)  | Saiha- 307.40 n<br>(507.7r<br>Mamit-204.87n  | n <mark>m</mark> Kolasib-<br>nm)   | 236.00mm<br>(428.1mm)<br>0-411.72mm   |
| (453.1mm)  | (   | 465.14mm)  | (442.80r   | nm)  | (259.62mm)  |
| Weather summary of   | of the past                                 | $12^{\text{th}}$ Julv- 1   | <b>6<sup>th</sup> July. 20</b> 1   | l <b>7 chhunga</b> s   | sik leh sa  |
| three days   | s   | · · · · · · · · · · · · · · · · · · ·  | dinhmun tu   |  |   |
| Maximum Tem. (°C):2<br>Minimum Tem. (°C):1<br>Maximum RH (%):92-<br>Minimum RH (%):72-3<br>Wind Direction: South<br>Cloud cover: Mainly of<br>Wind speed: 3 km/hr<br>Rainfall: 26.6 mm | 8-20°C<br>96%<br>85%<br>heasterly<br>cloudy | Tun ni 3 chhur<br>tura beisei a ni.<br>vawh lai ber in<br>berin 97-99% le<br>niin. Thli hi dark<br>zawngin a tleh<br>hian khawthiang | ng lo awm tura<br>Khua a lum lai<br>23-25°C ni tu<br>ch a hniam lai<br>car khatah 2 ka<br>rin a ni. A tla<br>g tak hmuh bei<br><b>y cumulative</b> | ah hian ruahtu<br>berin 27-33°C<br>ura beisei a ni<br>berin 69-90%<br>m vela chakin c<br>ngpuiin tun ni<br>sei a ni.<br><b>rainfall: 43.0r</b> | a ni ang a. A<br>. RH san lai<br>ni tur a rin<br>hhaklam awi<br>nga chhung<br><b>nm</b> |
| NDVI for Mizoram   |   | North East Region 29 Jane 2017   | and / wet<br>record<br>Wet fixed<br>Wet fixed<br>Wet fixed   | wet mildly dr  |   |
|  |   | V V  | [~   |  | 1   P a g e   |



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Mizoram Centre, Kolasib- 796081, MIZORAM



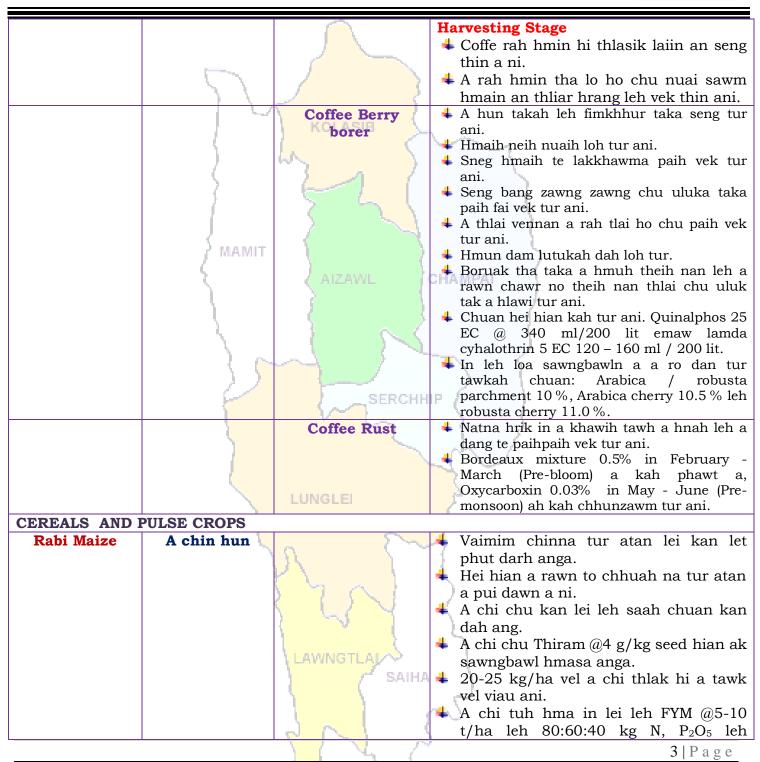
| Main Crop/    | Stage        | Cultural              | Agricultural / Horticultural/ animal                     |
|---------------|--------------|-----------------------|--|
| Animal        |              | practices/ Pest/      | husbandry advisories                                     |
| /Fisheries    |              | Diseases              |  |
| FRUITS CROPS  |              | I                     |  |
| KHASI         | A kui atanga | -                     | 4 Thlasik laia thlai bul khoro lutuk tur                 |
| MANDARIN      | a seng hun   | KOLASIB               | vennan chuan hnim hnah hring tlai bul                    |
| AND ACID      | 5            |                       | velah dahkhawm tur ani.                                  |
| LIME          | )            | W. N                  | 4 Thlai naupang deuah chuan chawlh                       |
|               | (            | 3 1                   | kar tin a tui pek thin tur ani.                          |
| BANANA        | 1            |                       | 🖊 Leia tha mamawh tawk a hmuh                            |
|               | (            |                       | theihna turin a hmunhma a hnim awm                       |
|               |              |                       | te thlawhfai thin tur ani.                               |
| STAR FRUIT    | A MAMIT      |                       | <b>4</b> A seng hma kar 6 chhung chu tui tha             |
|               | 1            |                       | taka pek hian a rah tla tur chelh nan                    |
| PLUM AND      | 2            | AIZAWL                | leh a rah than that nan te leh a rah                     |
| PEACH         | l l          |                       | keh tur lakah t a veng thei ani.                         |
| FEACH         |              | Gummosis, citrus      | <b>4</b> Temperture hniam lutuk leh hnawng vang          |
|               | - K          | canker, citrus        | hian natna a a tam duh a . Soil bome natna               |
|               | 1 A A        | greening and          | – laka vennan Bordeaux past hi thing zar leh             |
|               |              | Dieback               | a trangah te hnawih tur ani.                             |
|               |              | Fruit fly RCHH        | Huan zau takah chuan a par tan tirh leh a                |
|               |              | CA-C                  | rah tan tirin chawlhkar hnih chhung chu                  |
|               |              |                       | heng te hian enkawl tur ani: carbaryl 0.2                |
|               |              |                       | percent emaw malathion 0.15 percent                      |
|               |              | N 100                 | suspension containing sugar or jeggery at                |
| PLANTATION CR |              |                       | 10 g/l.  |
| COFFEE        |              | EUNGEEI               | Nursery store  |
| COFFEE        | All stages   |                       | Nursery stage<br>Thlai chi thlak hma in Azospirillum leh |
|               |              | 5                     | Phosphobacterium a enkawl tur ani.                       |
|               |              | A 500                 | A chi hi December – January ah hmun                      |
|               |              |                       | zawl/rualrem 1.5 - 2.5 cm a in hlatin                    |
|               |              |                       | ) tlar mumal tak siam in chin tur ani.                   |
|               |              |                       | 4 Chuan a chi chu lei tlem te a chhilh a                 |
|               |              |                       | buhpawla khuh tur ani.                                   |
|               |              |                       | ↓ Nitin tui pek tur ani a, a sat lutuka loh              |
|               |              |                       | nan niin a chhun loh nan zar hliah tur                   |
|               |              | / SAIHA               | ani.   |
|               |              |                       | ♣ Ni 45 hnu velah a tiak thin a,chu chu                  |
|               |              | 1                     | bag ah an sawn chhuak leh thin ani.                      |
|               |              |                       |  |
|               |              | $\underline{\Lambda}$ | 2   P a g e  |



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM







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Mizoram Centre, Kolasib- 796081, MIZORAM



| Soybean, pea,<br>lentil toria,<br>breen gram<br>and black<br>gram<br>cultivation in<br>rice fellow       All stage       Zero tillage       A than a that thein nan nikhat danah<br>tui pek thin tur ani.         Potato       Sowing stage       All an a that thein nan nikhat danah<br>tui pek thin tur ani.         Potato       Sowing stage       All an a that thein nan nikhat danah<br>tui pek thin tur ani.         VEGETABLE CROP       Secterial<br>Blight disease       Secterial<br>LUNCLE         Tomato       Bacterial<br>Blight disease       LUNCLE         Tomato hi a uai a, a thih mai loh nan<br>Ridomil emaw Indofil emaw Mancozeb<br>@ 2 gm hi tu iter 1 ah pawh a kah<br>tui pek thin tur ani.       Tomato hi a uai a, a thih mai loh nan<br>Ridomil emaw Indofil emaw Mancozeb<br>@ 2 gm hi tu iter 1 ah pawh a kah<br>tui pek thin tur ani.   | ICAR           |           |              |   |
|--|----------------|-----------|--------------|---|
| Ientil toria,<br>breen gram<br>and black<br>gram       Iu pek thin tur ani.         Lington in<br>rice fellow       Thiasik lai a lei khoro lutuk tur ven<br>nan a chungah hnim leh thildanga<br>khuh tur ani.         Potato       Sowing stage         Potato       Sowing stage         VEGETABLE CROP         Tomato       Bacterial<br>Blight disease         Blight disease       Tomato bikah chuan sik leh sa hi<br>natna an kaina tlang lawn ber ani .         Kearly Cole<br>crop       Black spot<br>disease         Early Cole<br>crop       Black spot<br>disease   | 0 1            |           |              |   |
| and black<br>gram<br>cultivation in<br>rice fellow<br>Potato<br>Sowing stage<br>AZAVL<br>Potato<br>Sowing stage<br>AZAVL<br>August and the probability of the | lentil toria,  | All stage | Zero tillage | tui pek thin tur ani.   |
| gram<br>cultivation in<br>rice fellow       nan a chungah hnim leh thildanga<br>khuh tur ani.         Potato       Sowing stage         Potato       Sowing stage         Alzani       Muangchang loving alu chin na tur<br>ikub buatsaih vat tur ani.         Hei hian a than hun laiin natna hrikin<br>lakah a veng dawn ani.       Hei hian a than hun laiin natna hrikin<br>lakah a veng dawn ani.         Lei leh hmain a hmun hma chu fai<br>taka thiawh hmasak tur ani.       A chi thlak hma in a chi chu en fiah<br>hmasak tur ani.         VEGETABLE CROP       Secterial<br>Blight disease       Tomato bikah chuan sik leh sa hi<br>natna an kaina tlang lawn ber ani .         VEGETABLE CROP       Black spot<br>disease       Tomato bikah chuan sik leh sa hi<br>natna an kaina tlang lawn ber ani .         Minon hawng leh ni hmu lo lutuk<br>hmunah chuan natna an kai hma ibh<br>ani.       Tomato bikah chuan sik leh sa hi<br>natna an kaina tlang lawn ber ani .         Early Cole<br>crop       Black spot<br>disease       MunotLasan<br>Alage       A than a that thein nan nikhat danah<br>tu pek thin tur ani.         Minon in quay mang hawn hi tui pek<br>zawhah dah tur ani.       Thlai bul vawn hnawn nana thlai bula<br>hnim ring vawm khawm hi tui pek<br>zawhah dah tur ani.   | and black      | 3         |              |   |
| Potato       Sowing stage       Azart       Muangchang loving alu chin na tur         Hei hian a than hun laiin natna hrikin       Iakin a veng dawn ani.       Hei hian a than hun laiin natna hrikin         Lei leh hmain a hmun hma chu fai       takah a veng dawn ani.       Lei leh hmain a hmun hma chu fai         VEGETABLE CROP       SERCH       A chi thlak hma in a chi chu en fiah         Tomato       Bacterial       SERCH       A chi thlak hma in a chi chu en fiah         Blight disease       Tomato bikah chuan sik leh sa hi       natna an kaina tlang lawn ber ani .         LUNGLE       Tomato bikah chuan sik leh sa hi       natna an kaina tlang lawn ber ani .         Black spot       Tomato hi a uai a, a thih mai loh nan       Ridomil emaw Mancozeb         @ 2 gm hi tui liter 1 ah pawlh a kah       tur ani .       A than a that theih nan nikhat danah         tur ani .       A than a that theih nan nikhat danah       tur ani .         A than a that theih nan nikhat danah       tur ani .       A than a that theih nan nikhat danah         tur ani .       A than a that theih nan nikhat danah       tur ani .         Kathan a that theih nan nikhat danah       tui pek zawah dah tur ani.       Thai bul vawn hnawn nana thlai bula         A than a that theih nan nikhat danah       tui pek zawah dah tur ani.       Zikhlum lam chi ah chuan sik leh  | cultivation in | Į         |              | nan a chungah hnim leh thildanga  |
| VEGETABLE CROP         Tomato       Bacterial<br>Blight disease         Early Cole<br>crop       Black spot<br>disease         Early Cole<br>crop       Black spot<br>disease  |                |           | AIZAWL       | Muangchang loving alu chin na tur<br>CHA chu buatsaih vat tur ani.          |
| VEGETABLE CROP         Tomato       Bacterial<br>Blight disease         Blight disease         LUNGLE         Tomato         Bacterial<br>Blight disease         LUNGLE         Tomato         Bacterial<br>Blight disease         LUNGLE         LUNGLE         LUNGLE         LUNGLE         A than a that theih nan nikhat danah<br>tui pek thin tur ani.         Year of the sector of t   |                |           |              |   |
| VEGETABLE CROP       Bacterial         Blight disease       Tomato         Blight disease       Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .         Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.       Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.         Early Cole crop       Black spot disease       Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .         HungLe       A than a that theih nan nikhat danah tur ani.       Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .         Early Cole crop       Black spot disease       A than a that theih nan nikhat danah tui pek thin tur ani.         HungLe       A than a that theih nan nikhat danah tui pek thin tur ani.         Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn   |                | 2         |              | taka thlawh hmasak tur ani.   |
| VEGETABLE CROP         Tomato       Bacterial<br>Blight disease         LUNGLEI       Tomato bikah chuan sik leh sa hi<br>natna an kaina tlang lawn ber ani .<br>Hmun hnawng leh ni hmu lo lutuk<br>hmunah chuan natna an kai hma bik<br>ani.         Early Cole<br>crop       Black spot<br>disease       Tomato hi a uai a, a thih mai loh nan<br>Ridomil emaw Indofil emaw Mancozeb<br>@ 2 gm hi tui liter 1 ah pawlh a kah<br>tur ani .         Kathar Sailta       A than a that theih nan nikhat danah<br>tui pek thin tur ani.         Kathar Sailta       Thlai bul vawn hnawn nana thlai bula<br>hnim ring vawm khawm hi tui pek<br>zawhah dah tur ani.   |                | P         | SERCHH       | hmasak tur ani.<br>R4 A than a that theih nan nikhat danah                  |
| TomatoBacterial<br>Blight diseaseBlight diseaseImage: Color<br>CropEarly Cole<br>cropBlack spot<br>diseaseColor<br>CropBlack spot<br>diseaseColor<br>CropColor<br>DiseaseEarly Cole<br>cropBlack spot<br>diseaseColor<br>DiseaseColor<br>DiseaseEarly Cole<br>CropBlack spot<br>diseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>DiseaseColor<br>Disease  | VECETADI E CD  |           |              | tui pek thin tur ani.   |
| Early Cole crop       Black spot disease         Image: Cole crop       A than a that theih nan nikhat danah tui pek thin tur ani.         Image: Cole crop       Image: Cole crop         Image: Cole crop       Image  |                | Bacterial | LUNGLEI      | Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik           |
| Early Cole crop       Black spot disease       tur ani .         LawNGTLAT       A than a that theih nan nikhat danah tui pek thin tur ani.         LawNGTLAT       Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.         LawNGTLAT       Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn  |                | <u> </u>  | A P          | Tomato hi a uai a, a thih mai loh nan<br>Ridomil emaw Indofil emaw Mancozeb |
| Thlai bul vawn hnawn nana thlai bula<br>hnim ring vawm khawm hi tui pek<br>zawhah dah tur ani.<br>Zikhlum lam chi ah chuan sik leh<br>sa vangin a hnah ah thil dum rawn  | •              | -         |              | ) tur ani .   |
| Zikhlum lam chi ah chuan sik leh<br>sa vangin a hnah ah thil dum rawn  | Croh           | 4155455   |              | Thlai bul vawn hnawn nana thlai bula<br>hnim ring vawm khawm hi tui pek     |
|  |                |           |              | Zikhlum lam chi ah chuan sik leh  |
|  |                |           | N N N        | <u>4 Page</u>   |



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| ICAR        |               |                 |   |
|-------------|---------------|-----------------|---|
|             |               |                 | awm thin a , hei hi natna tlanglawn<br>ber ani.                           |
|             |               |                 | $\downarrow$ Thlai hna lam chi leh zikhlum lam                            |
|             |               |                 |   |
|             | 1 1           | 1 5             | chi reng reng enkawl nan Mancozeb   |
|             |               | V /             | @ 2gm ah tui leter 1 pawlha kah   |
|             | <b>NT</b> (   | KOLASIB         | tur ani.  |
| Onion and   | Nursery stage | Poly house      | A than a that theih nan nikhat danah                                      |
| capsicum    |               |                 | tui pek thin tur ani.   |
|             | $  \rangle$   |                 | hnim ring vawm khawm hi tui pek   |
|             |               |                 | zawhah dah tur ani.   |
|             |               |                 | <ul> <li>Thlai chhina hmun (nursery) hi hnim a</li> </ul>                 |
|             | <             | 7               | to loh nan Pendimethalin @ 3.5ml hi                                       |
|             | / MAMIT       |                 | tui liter 1 zelah pawlh a kah hi a tha                                    |
|             | 2             | AIZAWL          | CHA hle ani.  |
|             | 1             | Phytopthora     | 4 A chi ven that nan thiram 3g/kg seed                                    |
|             | 1             | blight          | emaw Trichoderma viride 4g+ metalaxyl 4g                                  |
|             | 1 N           |                 | (Apron)/ kg seed hi a tha hle ani   |
|             |               |                 | Hneh taka 1% Bordeaux chawhpawlh  |
|             |               |                 | emaw 2 g captan emaw 3 copper<br>oxychloride a tui liter 1 hi 10-15 DAS a |
|             |               |                 | pek hi a tha hle ani.   |
| French bean | Sowing stage  | SERCHIN         | 4 Tui pek a hnihnah hringa khuh tur ani                                   |
|             |               |                 | a. than a that theih nan tui pek hma                                      |
|             |               |                 | in lei rin pan hmasak tur ani.  |
|             |               |                 | 👍 A than duna theih nan leh hnim to loh                                   |
|             |               |                 | na turin a kung bulah lei vur chhoh zel                                   |
|             |               | LUNGLEI         | tur ani.  |
| Carrot and  | Sowing stage  |                 | • A than a that theih nan nikhat danah                                    |
| radish      |               | - S~            | tui pek thin tur ani.<br>Tui pek hnuah thlai bul vawn hnawn               |
|             |               | A Y             | na tur siam tur ani.  |
|             |               |                 | Zikhlum lam chi ah chuan sik leh  |
|             |               |                 | sa vangin a hnah ah thil dum a  |
|             |               |                 | rawn awm thina, hei hi natna  |
|             |               |                 |   |
|             |               | LI ALABIAT AL A | tlanglawn ber ani.  |
|             |               | LAWNGTLA        | Thlai hna lam chi leh zikhlum lam   |
|             |               | SAIHA           |   |
|             |               |                 | Mancozeb @ 2gm ah tui leter 1   |
|             |               |                 | 🔨 pawlha kah tur ani.   |
|             |               |                 | <b>7</b> 10   |
|             |               |                 | 5   P a g e   |



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| ANIMAL HUSBE | ENDARY               |   |   |
|--------------|----------------------|---|---|
| Pig          | All stages           | KOLASIB   | <ul> <li>Khua a vawh hian vawk hian an mahni<br/>in tih lumna tur atan chakna an<br/>mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah<br/>renga, a chaw ei tur tlem tlema tih tam<br/>hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam<br/>em a vangin an chakna muangchanga<br/>a in siam chhoh zel theih nan a tha hle<br/>ani.</li> </ul> |
|              | MAMIT                | Porcine<br>Reproductive<br>Respiratory<br>Syndrome<br>(PRRS). | 1. Vawknote emaw vawk lak hran.   |
|              | Adult stage          | Swine fever.  | 2. SF vaccines hi thla 2 hnua pek tur ani a,<br>chumi hnuah chuan kumtin thlaruk<br>danah pek chhunzawm tur ani.  |
| Cattle       | All age group        | SERCHH  | • Hun rei tak khua a ro avanga hnim<br>hnah hring peh tur a awm loh laia  |
|              | All age group        | Foot and Mouth<br>Disease (FMD)                               | • Kar 16 hnuah FMD vaccine pek a,<br>chuan thla tin thla 6 chhung<br>chhunzawm tur ani.   |
|              | Young stage          | Black Quarter<br>(BQ)   | <ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah<br/>emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum<br/>tin pek tur ani.</li> </ul>  |
| Poultry      | Litter<br>management | LAWNGTLAL   | <ul> <li>Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.</li> <li>An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.</li> </ul>   |
|              |                      | C C C   | <b>6</b>   P a g e  |



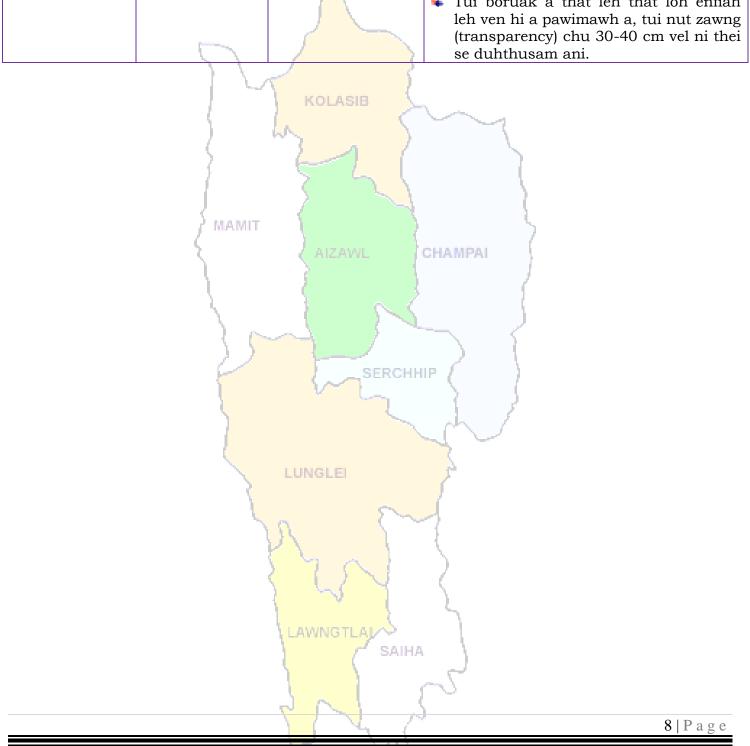
ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



| Preventive   | 0-3 rd week                                      | <ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> <li>Ranikhet Disease- an pian atanga ni</li> </ul>  |
|--|--|---|
| measures   | man ?  | <ul> <li>1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R<sub>2</sub>B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>   |
| A MAMIT  | 4 <sup>th</sup> weeks<br>4-5 <sup>th</sup> Weeks | <ul> <li>Coccidiosis- Amprolium or coccidiostat</li> <li>Calcium tonic fortified with B<sub>12</sub></li> </ul>   |
| FISHERY  | AIZAWL   | CHAMPAI   |
| Stocking and<br>monitoring<br>(Sangha<br>chhuah leh<br>enkawl) | SERCHH   | <ul> <li>Dila chhuah turin sangha no te hrisel<br/>tha hatchery atangin lei tur ani.<br/>Sangha note harh tha deuh leh natna<br/>(taksa var, harhlo, pangparh hmawr<br/>tawih) veilo tih hriat chian lei hram<br/>tum tur ani .</li> <li>Sangha note piang hlim (Spawn) leh a<br/>mit lowle (frw) te ohu dom khawahhuak</li> </ul>            |
|  |  | mit lawk (fry) te chu dam khawchhuak<br>(puitling) an tam zawk theina turin,<br>dilpui (grow out) a chhuah hmain<br>nursery leh rearing tuikhuah ah khawi<br>hmasak phawt a tha.<br>Sangha a lo than chak zawknan leh an<br>dam thatna turin diltuikhuah hectare<br>khat zel a zauah sangha note 8000<br>bawr vel chhuah hi a tha ber a ngaih |
|  | LAWINGTLAL                                       | <ul> <li>ani.</li> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin</li> </ul>   |
|  |  | chaw pek thin tur ani.  |
|  | P P P  | <b>7</b>   P a g e  |





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### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



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V LAWNGTLA] SAIHA

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**R RESEARCH COMPLEX FOR NEH REGION** ICA

Mizoram Centre, Kolasib- 796081, MIZORAM

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



### **District: Saiha**

Bulletin No: - 717/2017/ Bulletin/English

Period: 12 July - 16 July, 2017

### Date of issue: 11th July, 2017

| ParametersRainfall (mm)Max Temp (°C)Min Temp (°C)Cloud CoverageMax RH (%)Min RH (%)   | 12.07.2017<br>0<br>31<br>23<br>Mainly cloudy<br>99<br>78<br>2                                       | 13.07.2017           5           31           23           Mainly cloudy           99           70   | 14.07.2017           40           30           25           Mainly cloudy   | 15.07.2017<br>0<br>30<br>25<br>Mainly cloudy   | 16.07.2017<br>0<br>32<br>24  |
|---|---|--|---|--|--|
| Max Temp (°C)Min Temp (°C)Cloud CoverageMax RH (%)Min RH (%)  | 31<br>23<br>Mainly cloudy<br>99<br>78   | 31<br>23<br>Mainly cloudy<br>99  | 30<br>25<br>Mainly cloudy   | 30<br>25   | 32   |
| Min Temp (°C)<br>Cloud Coverage<br>Max RH (%)<br>Min RH (%)   | 23<br>Mainly cloudy<br>99<br>78   | 23<br>Mainly cloudy<br>99  | 25<br>Mainly cloudy   | 25   |  |
| Cloud Coverage<br>Max RH (%)<br>Min RH (%)  | Mainly cloudy<br>99<br>78   | Mainly cloudy<br>99  | Mainly cloudy   |  | 24   |
| Max RH (%)<br>Min RH (%)  | 99<br>78  | 99   | 0 0   | Mainly cloudy  |  |
| Min RH (%)  | 78  |  |   | Manny Cloudy   | Mainly cloudy  |
| · · ·   |   | 70   | 98  | 99   | 98   |
|   | 0   | 10   | 81  | 86   | 75   |
| Wind Speed (KmpH)   | 2   | 2  | 2   | 2  | 2  |
| *Wind Direction   | E   | E  | S-E   | E  | E  |
| Souther   | ly- <mark>S</mark> , South-W  | asterly- <mark>N-E</mark> , Ea<br>esterly- <mark>S-W</mark> , We   | sterly-W, North   | -westerly- N-W.  |  |
| STATUS OF MONSO<br>Aizawl- 384.87mm   | -   | •  | of deviation fr<br><mark>Saiha- 307.40 n</mark>   | -  | arenthesis)<br>236.00mm  |
| (430.2mm)   |   | 359.89mm)  | (507.71   |  | (428.1mm)  |
| Lawngtlai-291.20mm  |   |  | Mamit-204.87n   | n <mark>m Serch</mark> hip   | -411.72mm  |
| (453.1mm)   |   | 465.14mm)  | (442.80r  | · · · · · · · · · · · · · · · · · · ·  | (259.62mm)   |
| Weather summary o   |   | Weather fore   |   | n 12 <sup>th</sup> July, 20  | 17 To 16 <sup>th</sup>   |
| three days  |   |  | July, 2   | 017.   |  |
| Maximum Tem. (°C):24<br>Minimum Tem. (°C):14<br>Maximum RH (%):88-9<br>Minimum RH (%):76-8<br>Wind Direction: South<br>Cloud cover: Mainly c<br>Wind speed: 3-4 km/2<br>Rainfall: 19.4 mm | 4-16°C     r       97%     t       34%     M       neasterly     g       loudy     v       hr     v | North East Region 29 Jane 2017   | maximum and<br>rs may range<br>we humidity is<br>num may from<br>ly to southeas<br>2-4 km per ho<br>he next five day<br><b>y cumulative</b><br>Moderately<br>conditions | l minimum tem<br>for 30-32°C a<br>expected in the<br>m 70-81%. Wi<br>sterly and easte<br>our. Mainly clo | peratures for<br>nd 23-25°C.<br>range of 98-<br>nd direction<br>erly with the<br>udy sky will<br><b>mm</b> |
|   |   | Artollure vigeur is good over most of the parts. Northern A<br>Tripurs and Mighelays whereas moderate vigour is noticed is<br>of the region. | ssam  |  | 1   Page   |

IPage



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

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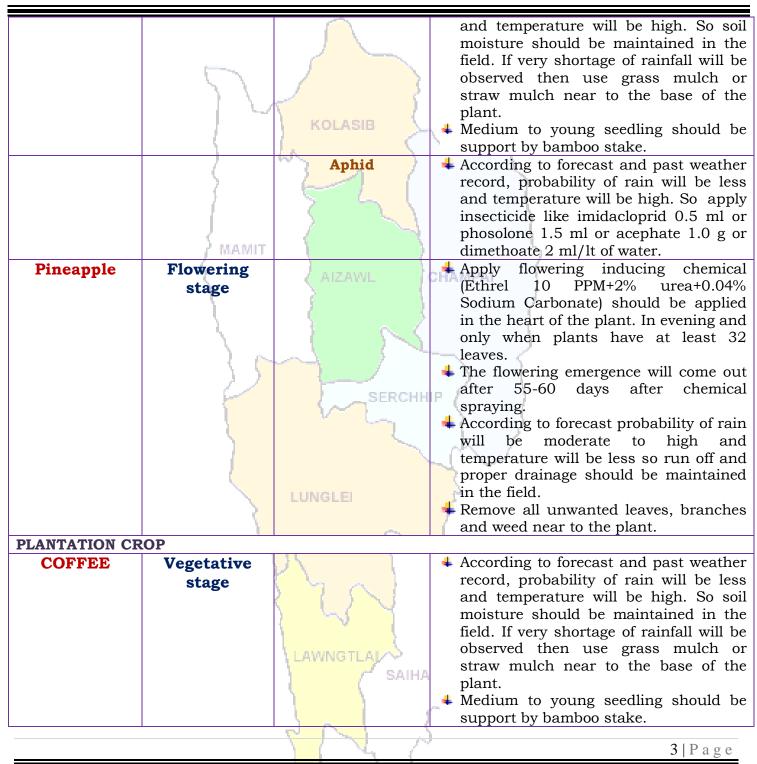
| Main O /      | Cha i         | 014 1                              |   |
|---------------|---------------|------------------------------------|---|
| Main Crop/    | Stage         | Cultural                           | Agricultural / Horticultural / animal   |
| Animal        |               | practices/ Pest/                   | husbandry advisories  |
| /Fisheries    |               | Diseases                           |   |
| FRUITS CROPS  |               |                                    |   |
| KHASI         | Seedling      | S S                                | <b>4</b> According to forecast and past weather                                 |
| MANDARIN      | transplanting | KOLASIB                            | record, probability of rain will be less  |
| AND ACID      | stage         | 1                                  | and temperature will be high. So soil   |
| LIME          | Ţ             | What I                             | moisture should be maintained in the  |
|               | (             | 1 1 1                              | field. If very shortage of rainfall will be                                     |
| BANANA        | (             |                                    | observed then use grass mulch or  |
|               |               |                                    | straw mulch near to the base of the   |
|               |               |                                    | plant.  |
| STAR FRUIT    | A MAMIT       | 1 1 1                              | <b>4</b> Medium to young seedling should be                                     |
|               | 1             |                                    | support by bamboo stake.  |
| PLUM AND      | 2 C           | AIZAWL [                           | □ ↓ In the citrus belt, trees can be planted                                    |
|               | 1             |                                    | at any time; however, spring is the best  |
| PEACH         | 1             | 1 6 5                              | time for container grown plants.  |
|               |               |                                    | Standard-size trees should be spaced  |
|               |               |                                    | 12 to 25 feet apart and dwarf trees   |
|               |               |                                    | should be set 6 to 10 feet apart. The   |
|               | 1             |                                    | exact distance depends on the variety.  |
|               |               | SERCHH                             |   |
|               |               |                                    | the distance.   |
|               |               |                                    | Use split dose of fertilizer for normal   |
|               |               | Our and a site site and            | growth and development.   |
|               |               | Gummosis, citrus<br>Canker, Citrus | According to forecast and past weather record, probability of rain will be less |
|               |               | Lungreening,                       | and temperature will be high. So  |
|               |               | Dieback, Lamon                     | following pest problem will be high   |
|               | \\            | butterfly and leaf                 | Lamon butterfly- Spray monocrotophos  |
|               |               | minor                              | @0.04% @1.2 ml/lt of water.   |
|               |               |                                    | <b>Leaf minor-</b> Spray confidor 0.05% (0.5                                    |
|               |               |                                    | ml/lit of water) at each flush  |
|               |               |                                    | emergence.  |
|               |               |                                    | <b>4</b> Citrus Canker- Apply bacterimycin                                      |
|               |               | N ~ (                              | @0.6 g/lt of water.   |
| Passion Fruit | Vegetative    |                                    | <b>4</b> Trail semi hard wood stem to bower                                     |
|               | stage         | SAIHA                              | structure   |
|               | 5             | ( SAIHA                            | 4 Clean near the base of the plant.   |
|               |               |                                    | According to forecast and past weather  |
|               |               |                                    | record, probability of rain will be less  |
|               |               |                                    | )   |
|               |               |                                    | 2   P a g e   |



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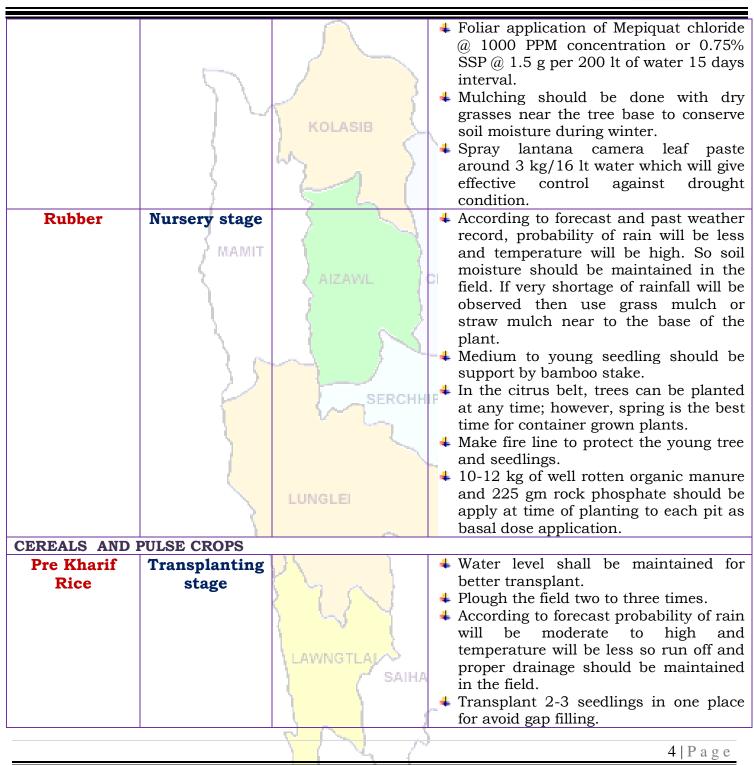




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Mizoram Centre, Kolasib- 796081, MIZORAM







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|                 |                               | $\wedge$                           | <ul> <li>Spacing should be 20 cm row to row and 15 cm plant to plant.</li> <li>Keep some seedlings in nursery or corner of the field for gap filling.</li> </ul>  |
|-----------------|-------------------------------|------------------------------------|---|
|                 |                               | Rice thrips and<br>rice leaf mites | <ul> <li>According to forecast probability of rain will<br/>be moderate to high and temperature will<br/>be less and humidity will high so possibility<br/>of rice thrips attack will high.</li> </ul>  |
|                 |                               | 222                                | Spray Monocrotophos @ 1.5 ml/lt of water<br>or Imidachloroprid 1.5 ml/lt of water for<br>effective control.   |
| Jhum Rice       | Germination<br>stage<br>MAMIT | AIZAWL                             | <ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top</li> </ul>                               |
|                 |                               | Rice stem borer<br>and leaf folder | <ul> <li>dressing.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility</li> </ul>  |
| Maize           | Voroteting                    | SERCHH                             | <ul> <li>of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul>   |
| Maize<br>(Jhum) | Vegetative<br>stage           | LUNGLEI                            | <ul> <li>According to forecast probability of rain<br/>will be moderate to high and<br/>temperature will be less so run off and<br/>proper drainage should be maintained<br/>in the field.</li> <li>Don't use split dose of fertilizer for top<br/>dressing.</li> </ul> |
| VEGETABLE CRO   | OP                            |                                    |   |
| Cowpea          | Vegetative<br>stage           |                                    | <ul> <li>According to forecast probability of rain<br/>will be moderate to high and<br/>temperature will be less so run off and<br/>proper drainage should be maintained<br/>in the field.</li> </ul>   |
|                 |                               | SAIHA                              | <ul> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower structure</li> </ul>  |
|                 |                               |                                    | 5   P a g e   |



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| ICAR          |                          |                 |   |
|---------------|--------------------------|-----------------|---|
|               |                          |                 | 4 Clean near the base of the plant.                                   |
| Okra          | Vegetative               |                 | 4 According to forecast probability of rain                           |
| Unit u        | stage                    |                 | will be moderate to high and  |
|               | Slage                    |                 | temperature will be less so run off and                               |
|               |                          | 5               | proper drainage should be maintained                                  |
|               |                          | (               | in the field.   |
|               |                          | KOLASIB         |   |
|               | 1                        | 7               | Don't use split dose of fertilizer for top                            |
|               |                          | W N             | dressing.   |
|               | (                        | 3 4 /           | 4 Trail semi hard wood stem to bower                                  |
|               | 2                        |                 | structure   |
|               | 1                        |                 | Clean near the base of the plant.                                     |
|               |                          | Okra leafroller | 4 Apply insecticide like imidacloprid 0.5 ml or                       |
|               |                          |                 | phosolone 1.5 ml or acephate 1.0 g or                                 |
|               | / MAMIT                  |                 | dimethoate 2 ml/lt of water.  |
| Ginger and    | Vegetative               | AIZAWL          | 4 According to forecast probability of rain                           |
| turmeric      | stage                    | CALAVIL         | will be moderate to high and  |
|               |                          |                 | temperature will be less so run off and                               |
|               |                          | 5 5             | proper drainage should be maintained                                  |
|               |                          |                 | in the field.   |
|               |                          |                 | 🚽 Apply well decomposed FYM/ pig                                      |
|               |                          |                 | manure @ 10-20 t/ha along with  |
|               |                          |                 | 120:80:60 kg N. P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O/ha |
|               |                          | SERCHH          | <sup>P</sup> (incorporate with soil for better                        |
|               |                          |                 | development.  |
| Colocasia     | Vegetati <mark>ve</mark> |                 | 4 According to forecast probability of rain                           |
|               | stage                    |                 | will be moderate to high and  |
|               | Stuge                    |                 | temperature will be less so run off and                               |
|               |                          |                 | proper drainage should be maintained                                  |
|               |                          | LUNGLEI         | in the field.   |
|               |                          |                 | Apply well decomposed FYM/ pig  |
|               |                          | 5~~.            | manure @ 10-20 t/ha along with  |
|               |                          | A 1             | $120:80:60$ kg N, $P_2O_5$ and $K_2O/ha$                              |
|               |                          |                 | incorporate with soil for better                                      |
|               |                          |                 | development.  |
| ANIMAL HUSBEN | IDARY                    |                 | y development.  |
| Pig           | All stages               | V V             | 4 As the weather gets colder, your pigs'                              |
| 5             | 111 564505               | 1               | energy requirement will increase, as                                  |
|               |                          | LAWNGTLAL       | they need more energy to keep warm.                                   |
|               |                          | / SAIHA         | <ul> <li>Regularly monitor their level of 'fitness'</li> </ul>        |
|               |                          |                 | and increase their feed intake to                                     |
|               |                          |                 | maintain.   |
|               | <u> </u>                 | 201             | -maintain.  |
|               |                          | V. A            | 6   P a g e   |
|               |                          |                 | Uliago  |



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

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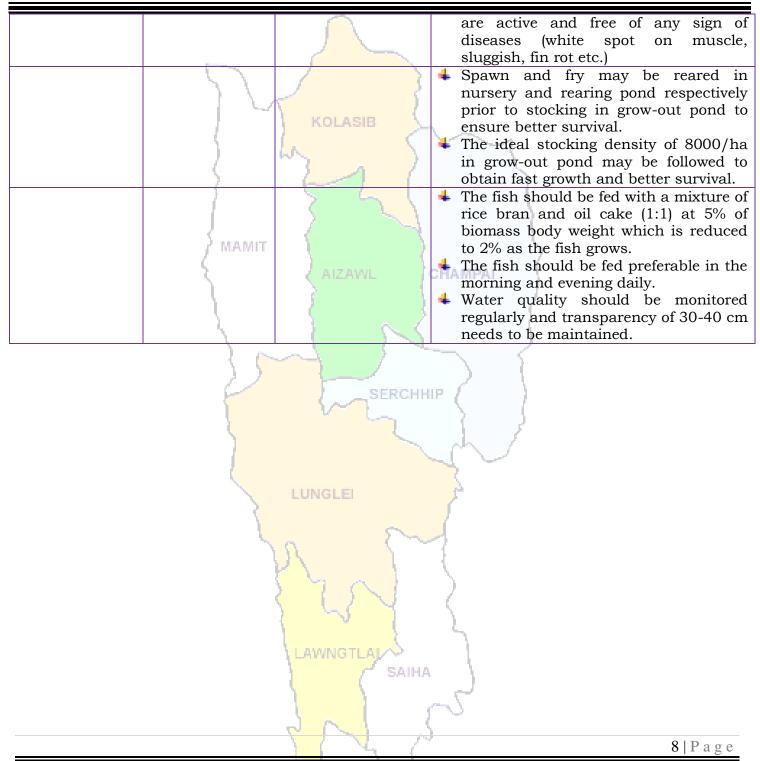
|         |               |                                       | 🖊 Fish oils are excellent for providing                  |
|---------|---------------|---------------------------------------|--|
|         |               |                                       | slow-release energy with the added                       |
|         |               |                                       | advantage of a high level of omega-3.                    |
|         |               | Porcine                               | 1. Culling of positive pigs or piglets.                  |
|         | 1 1           | Reproductive                          |  |
|         |               | · · · · · · · · · · · · · · · · · · · |  |
|         |               | Respiratory                           |  |
|         |               | Syndrome                              |  |
|         |               | (PRRS).                               |  |
|         | Adult stage   | Swine fever.                          | 2. Vaccination of pigs with SF vaccines at 2             |
|         | (             |                                       | months and yearly interval/6 month                       |
|         |               |                                       | interval   |
| Cattle  | All age group |                                       | During either hot or heavy rainy                         |
|         | AMAMIT        | 1                                     | condition, animal are advised to keep                    |
|         |               |                                       | under shade.   |
|         | 1             | AIZAWL                                | A Vaccination is mandatory for the cattle                |
|         | 1             |                                       | prior to monsoon to protect from                         |
|         |               |                                       | disease like Anthrax, Black Quarter,                     |
|         | ),            |                                       | Foot Mouth Disease, Duck Plague.                         |
| Poultry | Litter        |                                       | 4 Birds require adequate space, sufficient               |
|         | management    | ~~~ /                                 | feed to meet their nutritional                           |
|         |               |                                       | requirements and an adequate supply                      |
|         | 5             | SERCHH                                | P of good-quality water.                                 |
|         |               |                                       | 4 Good management and sanitation are                     |
|         |               | 1                                     | the best ways to avoid infectious                        |
|         |               |                                       | disease in poultry.                                      |
|         |               |                                       | 🕂 Provide ample quantity of clean                        |
|         |               |                                       | drinking water.  |
|         |               | LUNGLEI                               | 4 Avoid feeding of mouldy feed. Don't                    |
|         |               |                                       | make sudden changes in feed                              |
|         | Preventive    | 0-3 rd week                           | <b>Ranikhet Disease-</b> F1 vaccine at (1-6)             |
|         | measures      | 0                                     | days of birth and $R_2B$ vaccine for adult               |
|         |               |                                       | birds.   |
|         |               |                                       | 4 B complex with antibodies                              |
|         |               | 4 <sup>th</sup> weeks                 | <b>4 Coccidiosis-</b> Amprolium or                       |
|         |               |                                       | coccidiostat   |
|         |               | 4-5 <sup>th</sup> Weeks               | $\clubsuit$ Calcium tonic fortified with B <sub>12</sub> |
| FISHERY |               | LAWNGTLA                              | + Calcium tome for the with D <sub>12</sub>              |
| FIGHERI | 0, 1, 1       | SAIHA                                 |  |
|         | Stocking and  |                                       | + Healthy fish seed may be procured from                 |
|         | monitoring    |                                       | hatcheries for stocking in the pond. It                  |
|         |               |                                       | should be ensured that the fish seed                     |
|         |               | VN. A                                 | <b>7</b>   P a g e                                       |
|         |               |                                       | /   1 a g c  |



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Mizoram Centre, Kolasib- 796081, MIZORAM







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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



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V LAWNGTLA] SAIHA

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM

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



### **District: Saiha**

| Bulletin | <b>No:</b> - | 717 | /2017 | / Bulletin | /Mizo |
|----------|--------------|-----|-------|------------|-------|
|          |              |     |       |            |       |

Period: 12 July - 16 July, 2017

Date of issue: 11<sup>th</sup> July, 2017

| Parameters   | 12.07.2017                                  | 13.07.2017  | 14.07.2017  | 15.07.2017  | 16.07.2017  |
|--|---|---|---|---|---|
| Rainfall (mm)  | 0   | 5   | 40  | 0   | 0   |
| Max Temp (°C)  | 31  | 31  | 30  | 30  | 32  |
| Min Temp (°C)  | 23  | 23  | 25  | 25  | 24  |
| Cloud Coverage   | Mainly cloudy                               | Mainly cloudy   | Mainly cloudy   | Mainly cloudy   | Mainly cloudy   |
| Max RH (%)   | 99  | 99  | 98  | 99  | 98  |
| Min RH (%)   | 78  | 70  | 81  | 86  | 75  |
| Wind Speed (KmpH)  | 2   | 2   | 2   | 2   | 2   |
| *Wind Direction  | E   | E   | S-E   | E   | Е   |
| Northe   | rly- N, North-                              | Easterly- N-E, E  | asterly- E, Sout  | h-Easterly- <mark>S-E</mark> ,  |   |
| Souther  | rly- <mark>S</mark> , South-V               | Westerly- <mark>S-W</mark> , W  | Vesterly-W, Nort  | h-westerly- N-W   | •   |
| STATUS OF MONSO  | OON- April 1-3                              | 0, 2017 (Percer   | nt of deviation f   | rom normal in p   | parenthesis)  |
| Aizawl- 384.87mm   | Champhai                                    | i- 105.48mm   | Saiha- 307.40   | mm Kolasib  | - 236.00mm  |
| (430.2mm)  |   | (359.89mm)  | (507.7  | mm)   | (428.1mm)   |
| Lawngtlai-291.20mm   | Lunglei-                                    | 326.00mm  | Mamit-204.87  | mm Serchhi  | p-411.72mm  |
| (453.1mm)  |   | (465.14mm)  | (442.80   | · · · · · · · · · · · · · · · · · · ·   | (259.62mm)  |
| Weather summary of   | of the past                                 | 12 <sup>th</sup> July-  | 16 <sup>th</sup> July, 20   | 17 chhunga  | sik leh sa  |
| three day  | s   | , in the second s | dinhmun tu  |   |   |
| Maximum Tem. (°C):2<br>Minimum Tem. (°C):1<br>Maximum RH (%):88-<br>Minimum RH (%):76-<br>Wind Direction: Sout<br>Cloud cover: Mainly of<br>Wind speed: 3-4 km/<br>Rainfall: 19.4 mm | 4-16°C<br>97%<br>84%<br>heasterly<br>cloudy | tura beisei a ni<br>vawh lai ber i<br>berin of 98-999<br>niin. Thli hi da<br>awi zawngin a<br>hian khawthian  | . Khua a lum la<br>n 23-25°C ni t<br>% leh a hniam<br>arkar khatah 2-<br>tleh rin a ni. A t<br>ng tak hmuh be | rah hian ruaht<br>ii berin 30-32°C<br>tura beisei a n<br>lai berin 70-81°<br>-4 km vela chal<br>clangpuiin tun r<br>isei a ni.<br><b>rainfall: 45.0</b> | 2 a ni ang a. A<br>i. RH san lai<br>% ni tur a rin<br>kin chhaklam<br>ni nga chhung |
| NDVI for Mizoram   |   |   | here suf / wt<br>hadgmond<br>a } Lottor<br>f 2 } lottor<br>f 2 } lottor<br>f 2 } wy cost                      | v wet mildly di   | ry/mildly wet   |
|  |   | N N   | 17  |   | 1   P a g e   |



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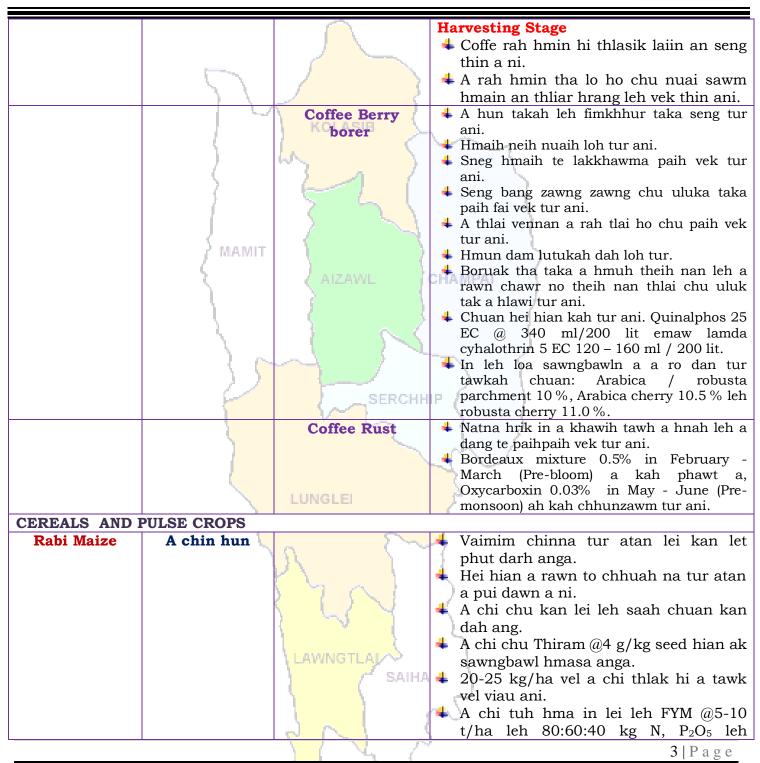
|               | -            |                   |  |
|---------------|--------------|-------------------|--|
| Main Crop/    | Stage        | Cultural          | Agricultural / Horticultural/ animal   |
| Animal        |              | practices/ Pest/  | husbandry advisories   |
| /Fisheries    |              | Diseases          |  |
| FRUITS CROPS  |              |                   |  |
| KHASI         | A kui atanga | 5                 | 4 Thlasik laia thlai bul khoro lutuk tur   |
| MANDARIN      | a seng hun   | KOLASIB           | vennan chuan hnim hnah hring tlai bul  |
| AND ACID      |              |                   | velah dahkhawm tur ani.  |
| LIME          | )            | ~ )               | Thlai naupang deuah chuan chawlh   |
| BANANA        | 5            |                   | kar tin a tui pek thin tur ani.<br>Leia tha mamawh tawk a hmuh                             |
| Dimini        |              |                   | theihna turin a hmunhma a hnim awm   |
|               |              |                   | te thlawhfai thin tur ani.   |
| STAR FRUIT    |              |                   | A seng hma kar 6 chhung chu tui tha  |
|               | / MAMIT      |                   | taka pek hian a rah tla tur chelh nan  |
|               |              | AIZAWL            | leh a rah than that nan te leh a rah   |
| PLUM AND      |              |                   | keh tur lakah t a veng thei ani.   |
| PEACH         |              |                   |  |
|               | 2            | Gummosis, citrus  | + Temperture hniam lutuk leh hnawng vang   |
|               | $\sim$       | canker, citrus    | hian natna a a tam duh a . Soil bome natna<br>— laka vennan Bordeaux past hi thing zar leh |
|               |              | greening and      | a trangah te hnawih tur ani.   |
|               |              | Dieback           |  |
|               |              | Fruit flyERCHH    | Huan zau takah chuan a par tan tirh leh a<br>rah tan tirin chawlhkar hnih chhung chu       |
|               |              |                   | heng te hian enkawl tur ani: carbaryl 0.2  |
|               |              |                   | percent emaw malathion 0.15 percent  |
|               |              |                   | suspension containing sugar or jeggery at  |
|               |              |                   | 10 g/l.  |
| PLANTATION CR |              | EGNGEEI           |  |
| COFFEE        | All stages   |                   | Nursery stage<br>Thlai chi thlak hma in Azospirillum leh                                   |
|               |              | <u> </u>          | Phosphobacterium a enkawl tur ani.   |
|               |              | n (***            | A chi hi December – January ah hmun  |
|               |              |                   | zawl/rualrem 1.5 - 2.5 cm a in hlatin  |
|               |              |                   | ) tlar mumal tak siam in chin tur ani.   |
|               |              |                   | Chuan a chi chu lei tlem te a chhilh a   |
|               |              |                   | buhpawla khuh tur ani.   |
|               |              | L AMARIC TL ALLAS | Nitin tui pek tur ani a, a sat lutuka loh  |
|               |              | LAWNGTLAK         | nan niin a chhun loh nan zar hliah tur   |
|               |              | ( SAIHA           | ani.   |
|               |              |                   | <b>4</b> Ni 45 hnu velah a tiak thin a,chu chu   |
|               |              |                   | bag ah an sawn chhuak leh thin ani.  |
|               |              |                   | <b>2</b>   D o g o   |
|               |              |                   | 2   P a g e  |



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM







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|  | 5                           |              | K <sub>2</sub> O/ha pawlh chu hman phawt tur a<br>ni. Nitrogen dose chanve chu a chi tuh<br>hunlaia hman tur a ni a, tichuan a<br>bang 25% chu thla khat hnu ah ani<br>ang a adang leh 25% chu a par hunah<br>hman tur a ni.   |
|--|-----------------------------|--------------|--|
| Soybean, pea,<br>lentil toria,<br>breen gram<br>and black<br>gram<br>cultivation in<br>rice fellow | All stage                   | Zero tillage | <ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>  |
| Potato<br>VEGETABLE CRO  | Sowing stage                | AIZAWL       | <ul> <li>Muangchang loving alu chin na tur<br/>chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin<br/>lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai<br/>taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah<br/>hmasak tur ani.</li> <li>A than a that theih nan nikhat danah<br/>tui pek thin tur ani.</li> </ul> |
| Tomato   | Bacterial<br>Blight disease |              | <ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .</li> </ul>  |
| Early Cole<br>crop   | Black spot<br>disease       | LAWNGTLAL    | <ul> <li>A than a that theih nan nikhat danah<br/>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula<br/>hnim ring vawm khawm hi tui pek</li> </ul>   |
|  |                             |              | 4   P a g e  |



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|                      | 5             | $\bigwedge$                  | awm thin a , hei hi natna tlanglawn<br>ber ani.<br>Thlai hna lam chi leh zikhlum lam<br>chi reng reng enkawl nan Mancozeb<br>@ 2gm ah tui leter 1 pawlha kah  |
|----------------------|---------------|------------------------------|---|
| Onion and            | Nursery stage | KOLASIB           Poly house | tur ani.<br>A than a that theih nan nikhat danah  |
| capsicum             | }             | men (                        | tui pek thin tur ani.<br>Thlai bul vawn hnawn nana thlai bula<br>hnim ring vawm khawm hi tui pek<br>zawhah dah tur ani.   |
|                      | AMMIT         | AIZAWL                       | <ul> <li>Thlai chhina hmun (nursery) hi hnim a<br/>to loh nan Pendimethalin @ 3.5ml hi<br/>tui liter 1 zelah pawlh a kah hi a tha</li> <li>CHA hle ani.</li> </ul>  |
|                      |               | Phytopthora<br>blight        | <ul> <li>A chi ven that nan thiram 3g/kg seed<br/>emaw Trichoderma viride 4g+ metalaxyl 4g<br/>(Apron)/ kg seed hi a tha hle ani</li> <li>Hneh taka 1% Bordeaux chawhpawlh<br/>emaw 2 g captan emaw 3 copper</li> </ul>                               |
|                      | $\sim$        | SERCHH                       | oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.  |
| French bean          | Sowing stage  |                              | <ul> <li>Tui pek a hnihnah hringa khuh tur ani<br/>a. than a that theih nan tui pek hma<br/>in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh<br/>na turin a kung bulah lei vur chhoh zel<br/>tur ani.</li> </ul>         |
| Carrot and<br>radish | Sowing stage  | Rad                          | <ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna</li> </ul> |
|                      |               | LAWNGTLAL                    | <ul> <li>tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1</li> </ul>  |
|                      |               | PN A                         | 5   P a g e   |



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| ANIMAL HUSBE | NDARY                |   |  |
|--------------|----------------------|---|--|
| Pig          | All stages           | KOLASIB   | <ul> <li>Khua a vawh hian vawk hian an mahni<br/>in tih lumna tur atan chakna an<br/>mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah<br/>renga, a chaw ei tur tlem tlema tih tam<br/>hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam<br/>em a vangin an chakna muangchanga<br/>a in siam chhoh zel theih nan a tha hle</li> </ul> |
|              | AMAMIT               | Porcine<br>Reproductive<br>Respiratory<br>Syndrome<br>(PRRS). | ani.<br>1. Vawknote emaw vawk lak hran.<br>CHAMPAI   |
|              | Adult stage          | Swine fever.  | 2. SF vaccines hi thla 2 hnua pek tur ani a,<br>chumi hnuah chuan kumtin thlaruk<br>danah pek chhunzawm tur ani.   |
| Cattle       | All age group        | SERCHH  | • Hun rei tak khua a ro avanga hnim<br>hnah hring peh tur a awm loh laia   |
|              | All age group        | Foot and Mouth<br>Disease (FMD)                               | • Kar 16 hnuah FMD vaccine pek a,<br>chuan thla tin thla 6 chhung<br>chhunzawm tur ani.  |
|              | Young stage          | Black Quarter<br>(BQ)   | <ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah<br/>emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum<br/>tin pek tur ani.</li> </ul>   |
| Poultry      | Litter<br>management | LAWNGTLAL   | Ar te hian hmun thawl nuam tawk,<br>chaw tha an mamawh tawk leh tui<br>thianghlim an mamawh tawk an hmu<br>tur ani a.  |
|              |                      | ANY Y   | <b>6</b>   P a g e   |



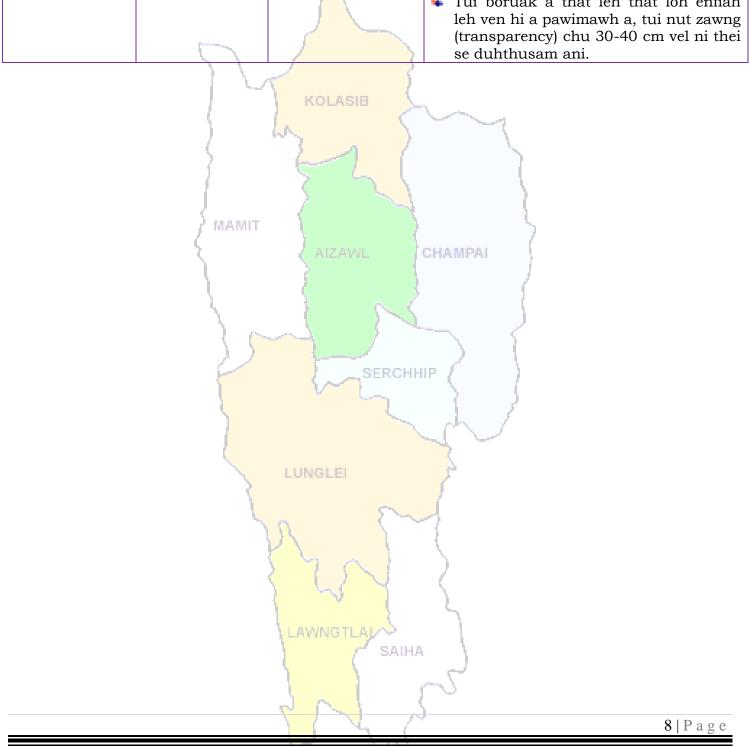
ICAR RESEARCH COMPLEX FOR NEH REGION

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| Preventive<br>measures  |                         | <ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> <li>Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R<sub>2</sub>B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>  |
|---|-------------------------|---|
|   | 4 <sup>th</sup> weeks   | <b>Coccidiosis</b> - Amprolium or   |
| ANN ANN   | 4-5 <sup>th</sup> Weeks | coccidiostat<br>Calcium tonic fortified with B <sub>12</sub>  |
| FISHERY   | AIZAWL                  | CHAMPAI   |
| Stocking an<br>monitoring<br>(Sangha<br>chhuah leh<br>enkawl) |                         | <ul> <li>Dila chhuah turin sangha no te hrisel<br/>tha hatchery atangin lei tur ani.<br/>Sangha note harh tha deuh leh natna<br/>(taksa var, harhlo, pangparh hmawr<br/>tawih) veilo tih hriat chian lei hram<br/>tum tur ani .</li> <li>Sangha note piang hlim (Spawn) leh a<br/>mit lawk (fry) te chu dam khawchhuak<br/>(puitling) an tam zawk theina turin,<br/>dilpui (grow out) a chhuah hmain<br/>nursery leh rearing tuikhuah ah khawi</li> </ul> |
|   | LUNGLEI                 | hmasak phawt a tha.<br>Sangha a lo than chak zawknan leh an<br>dam thatna turin diltuikhuah hectare<br>khat zel a zauah sangha note 8000<br>bawr vel chhuah hi a tha ber a ngaih<br>ani.  |
|   | LAWNGTLAI               | Sangha te chu favai leh oik cake zat leh<br>zat (1:1) a chawh pawlhin an taksa<br>rihzawng za zel ah panga ang vel a<br>chaw pek thin tur ani a, sangha a lo<br>len deuh hnu ah za zel a pahnih angin   |
|   |                         |   |
|   |                         | 7   P a g e   |





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### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



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V LAWNGTLA] SAIHA

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



### **District:** Serchhip

Bulletin No: - 717/2017/ Bulletin/English

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

| Parameters              | 12.07.2017                            | 13.07.2017  | 14.07.2017                   | 15.07.2017                            | 16.07.2017             |  |
|-------------------------|---------------------------------------|---|------------------------------|---------------------------------------|------------------------|--|
|                         |                                       |   | 14.07.2017                   |                                       |                        |  |
| Rainfall (mm)           | 6<br>31                               | 4 30  | 30                           | 0 29                                  | 0 33                   |  |
| Max Temp (°C)           | -                                     |   |                              |                                       |                        |  |
| Min Temp (°C)           | 23                                    | 23  | 23                           | 24                                    | 24                     |  |
| Cloud Coverage          | Mainly cloudy                         | Mainly cloudy   | Mainly cloudy                | Mainly cloudy                         | Partially clear        |  |
| Max RH (%)              | 100                                   | 100   | 100                          | 100                                   | 100                    |  |
| Min RH (%)              | 81                                    | 78  | 88                           | 92                                    | 77                     |  |
| Wind Speed (KmpH)       | 2                                     | 0   | 0                            | 2                                     | 2                      |  |
| *Wind Direction         | E                                     | E   | S-E                          | E                                     | E                      |  |
|                         |                                       | Easterly- <mark>N-E</mark> , Eas  |                              |                                       |                        |  |
|                         | · ·                                   | /esterly- <mark>S-W</mark> , We   | · · · · ·                    | <b>`</b>                              |                        |  |
| STATUS OF MONSO         |                                       |   |                              |                                       |                        |  |
| <b>Aizawl-</b> 384.87mm | · · · · · · · · · · · · · · · · · · · |   | <mark>Saiha- 307.40</mark> n |                                       | 236.00mm               |  |
| (430.2mm)               |                                       | (359.89mm)  | (507.71                      | · · · · · · · · · · · · · · · · · · · | (428.1mm)              |  |
| Lawngtlai-291.20mm      |                                       |   | <mark>Mamit-204.87</mark> n  | · · · · · · · · · · · · · · · · · · · | -411.72mm              |  |
| (453.1mm)               | (                                     | 465.14mm)   | (442.80r                     | · · · · · · · · · · · · · · · · · · · | (259.62mm)             |  |
| Weather summary         | of the past                           | Weather fored   | cast valid fron              | n 12 <sup>th</sup> July, 20           | 17 To 16 <sup>th</sup> |  |
| three day               | s                                     | July, 2017.   |                              |                                       |                        |  |
| Maximum Tem. (°C):2     | 26-29°C                               | There are chances of light rainfall during the next 2 days.                         |                              |                                       |                        |  |
| Minimum Tem. (°C):1     |                                       | The maximum and minimum temperatures for the next 5                                 |                              |                                       |                        |  |
| Maximum RH (%):94-      |                                       | days may range for 29-33°C and 23-24°C. Maximum                                     |                              |                                       |                        |  |
| Minimum RH (%):81-      |                                       | relative humidity is expected in the range of 100% and                              |                              |                                       |                        |  |
| Wind Direction: Sout    |                                       | minimum may from 77-92%. Wind direction would be                                    |                              |                                       |                        |  |
| Cloud cover: Mainly of  |                                       |   |                              |                                       |                        |  |
| Wind speed: 3 km/h      | • •                                   | easterly to southeasterly and easterly with the wind speed                          |                              |                                       |                        |  |
| -                       | (                                     | of 0-2 km per hour. Mainly cloudy sky will prevail during                           |                              |                                       |                        |  |
| Rainfall: 22.4 mm       | t                                     | the next five day   | S.                           |                                       |                        |  |
|                         |                                       |   |                              |                                       |                        |  |
|                         |                                       | Weekl   | y cumulative                 | <b>rainfall:</b> 13.0 1               | mm                     |  |
| NDVI for Mizoram        |                                       | North East Region 29 June 2017  | Moderately                   | wet mildly dr                         | y/mildly wet           |  |
|                         |                                       | ~   | conditions                   |                                       | 57 5                   |  |
|                         |                                       | Co.2 bise will / Well<br>bickground<br>0.2-0.3<br>0.3-0.4 Moderate                  |                              |                                       |                        |  |
|                         |                                       | 0.4-0.5 Good<br>0.5-0.6 Good<br>0.6-0.7 Wey Good                                    |                              |                                       |                        |  |
|                         |                                       | Agriculture vigour is good over most of the parts Northern Assam                    |                              |                                       |                        |  |
|                         |                                       | insure emultingenerate whereas moderate vigour is noticed in rest<br>of the region. |                              |                                       |                        |  |
| Main Crop/              | Stage                                 | Cultural  | Agricultur                   | al / Horticultu                       | ıral/ animal           |  |
| A * 1                   |                                       |   | N                            |                                       | -                      |  |
|                         |                                       |   |                              |                                       |                        |  |



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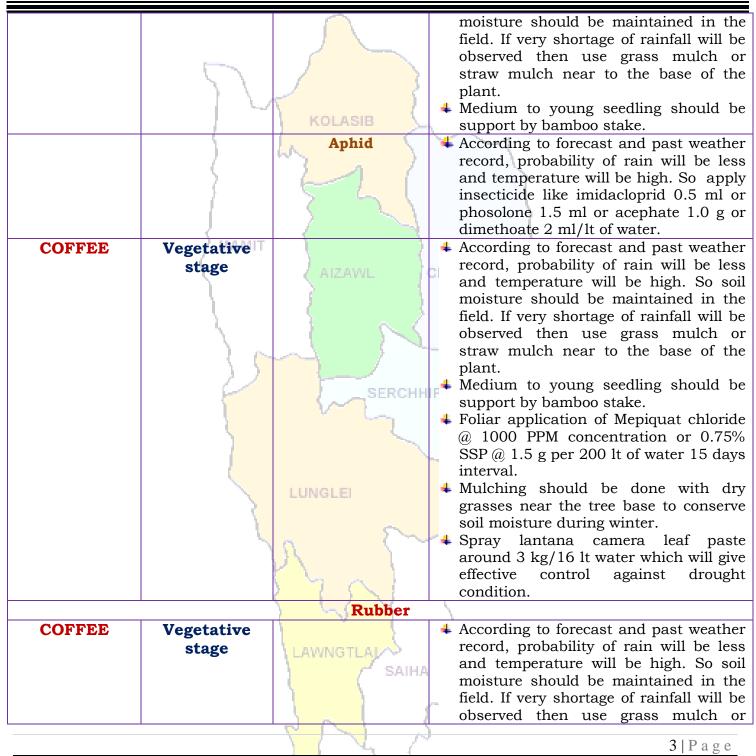
| Animal  |                                    | practices/ Pest/   | husbandry advisories   |
|---|------------------------------------|--|--|
| /Fisheries                                      |                                    | Diseases   |  |
| FRUITS CROPS                                    |                                    |  |  |
| KHASI<br>MANDARIN<br>AND ACID<br>LIME<br>BANANA | Seedling<br>transplanting<br>stage | KOLASIB  | According to forecast and past weather<br>record, probability of rain will be less<br>and temperature will be high. So soil<br>moisture should be maintained in the<br>field. If very shortage of rainfall will be<br>observed then use grass mulch or       |
| STAR FRUIT                                      | AMMIT                              | 23   | <ul> <li>straw mulch near to the base of the plant.</li> <li>Medium to young seedling should be support by bamboo stake.</li> <li>In the citrus belt, trees can be planted</li> </ul>  |
| PLUM AND<br>PEACH                               |                                    | AIZAWL   | <ul> <li>at any time; however, spring is the best time for container grown plants.</li> <li>Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety.</li> </ul> |
|   | P                                  | SERCHH   | The bigger the fruit, the farther<br>the distance.<br>Use split dose of fertilizer for normal<br>growth and development.   |
|   |                                    | Gummosis, citrus<br>Canker, Citrus<br>greening,<br>Dieback, Lamon<br>butterfly and leaf<br>minor | <ul> <li>According to forecast and past weather record, probability of rain will be less and temperature will be high. So following pest problem will be high</li> <li>Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water.</li> </ul>           |
|   |                                    | AN   | <ul> <li>Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence.</li> <li>Citrus Canker- Apply bacterimycin @0.6 g/lt of water.</li> </ul>   |
| Passion Fruit                                   | Vegetative<br>stage                | LAWNGTLAL  | <ul> <li>Trail semi hard wood stem to bower structure</li> <li>Clean near the base of the plant.</li> <li>According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil</li> </ul>                   |
|   |                                    | S N C  | 2   P a g e  |



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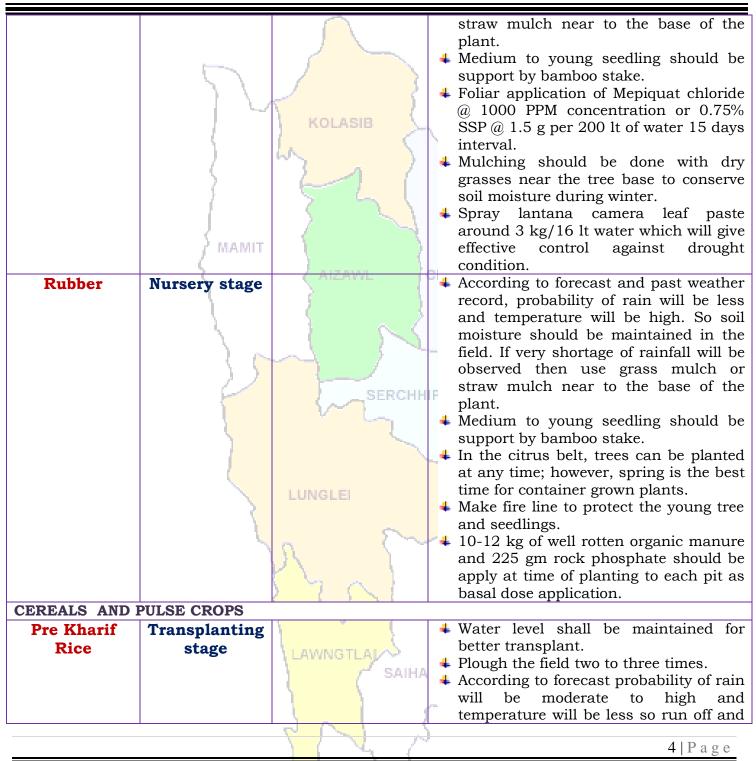




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|                          | A MAMIT              | KOLASIB<br>Rice thrips and<br>rice leaf mites | <ul> <li>proper drainage should be maintained<br/>in the field.</li> <li>Transplant 2-3 seedlings in one place<br/>for avoid gap filling.</li> <li>Spacing should be 20 cm row to row<br/>and 15 cm plant to plant.</li> <li>Keep some seedlings in nursery or<br/>corner of the field for gap filling.</li> <li>According to forecast probability of rain will<br/>be moderate to high and temperature will<br/>be less and humidity will high so possibility<br/>of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water<br/>or Imidachloroprid 1.5 ml/lt of water for<br/>effective control.</li> </ul> |
|--------------------------|----------------------|---|---|
| Jhum Rice                | Germination<br>stage | AIZAWL<br>Rice stem borerH                    | <ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> </ul>   |
|                          |                      | and leaf folder                               | <ul> <li>be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul>  |
| Maize<br>( <i>Jhum</i> ) | Vegetative<br>stage  | AN  | <ul> <li>According to forecast probability of rain<br/>will be moderate to high and<br/>temperature will be less so run off and<br/>proper drainage should be maintained<br/>in the field.</li> <li>Don't use split dose of fertilizer for top<br/>dressing.</li> </ul>   |
| <b>VEGETABLE CRO</b>     | OP                   |   |   |
| Cowpea                   | Vegetative<br>stage  |   | <ul> <li>According to forecast probability of rain<br/>will be moderate to high and<br/>temperature will be less so run off and<br/>proper drainage should be maintained<br/>in the field.</li> </ul>   |
|                          |                      |   | <b>7</b> L D  |
|                          |                      |   | 5   P a g e   |



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| Okra                   | Vegetative<br>stage | KOLASIB         | <ul> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower structure</li> <li>Clean near the base of the plant.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and</li> </ul>   |
|------------------------|---------------------|-----------------|---|
|                        | AMMIT               | "The            | <ul> <li>proper drainage should be maintained<br/>in the field.</li> <li>Don't use split dose of fertilizer for top<br/>dressing.</li> <li>Trail semi hard wood stem to bower<br/>structure</li> <li>Clean near the base of the plant.</li> </ul>   |
|                        |                     | Okra leafroller | Apply insecticide like imidacloprid 0.5 ml or<br>phosolone 1.5 ml or acephate 1.0 g or<br>dimethoate 2 ml/lt of water.  |
| Ginger and<br>turmeric | Vegetative<br>stage | SERCHI          | Apply well decomposed FYM/ pig<br>manure @ 10-20 t/ha along with<br>120:80:60 kg N, P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O/ha<br>incorporate with soil for better<br>development.   |
| Colocasia              | Vegetative<br>stage |                 | <ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil for better development.</li> </ul> |
| ANIMAL HUSBEN          | IDARY               |                 | · · •   |
| Pig                    | All stages          |                 | As the weather gets colder, your pigs'<br>energy requirement will increase, as  |
|                        |                     | r Nr            | <b>6</b>   P a g e  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

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|         |                      | KOLASIB<br>Porcine<br>Reproductive<br>Respiratory<br>Syndrome<br>(PRRS). | <ul> <li>they need more energy to keep warm.</li> <li>Regularly monitor their level of 'fitness' and increase their feed intake to maintain.</li> <li>Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.</li> <li>Culling of positive pigs or piglets.</li> </ul>  |
|---------|----------------------|--|--|
|         | Adult stage          | Swine fever.   | 2. Vaccination of pigs with SF vaccines at 2<br>months and yearly interval/6 month<br>CHAMINTERVAL   |
| Cattle  | All age group        | SERCHH   | <ul> <li>During either hot or heavy rainy condition, animal are advised to keep under shade.</li> <li>Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter,</li> <li>Foot Mouth Disease, Duck Plague.</li> </ul>   |
| Poultry | Litter<br>management |  | <ul> <li>Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water.</li> <li>Good management and sanitation are the best ways to avoid infectious disease in poultry.</li> <li>Provide ample quantity of clean drinking water.</li> <li>Avoid feeding of mouldy feed. Don't make sudden changes in feed</li> </ul> |
|         | Preventive           | 0-3 rd week  | <b>4</b> Ranikhet Disease- F1 vaccine at (1-6)   |
|         | measures             | LAWNGTLA   | <ul> <li>days of birth and R<sub>2</sub>B vaccine for adult birds.</li> <li>B complex with antibodies</li> </ul>   |
|         |                      | 4 <sup>th</sup> weeks AIHA   | 1  |
|         |                      |  | coccidiostat   |
|         |                      | 4-5 <sup>th</sup> Weeks  | Calcium tonic fortified with $B_{12}$  |
|         |                      |  | <b>7</b>   P a g e   |



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| FISHERY |                            | <u> </u>   |  |
|---------|----------------------------|------------|--|
|         | Stocking and<br>monitoring | KOLASIB    | Healthy fish seed may be procured from<br>hatcheries for stocking in the pond. It<br>should be ensured that the fish seed<br>are active and free of any sign of<br>diseases (white spot on muscle<br>sluggish, fin rot etc.)   |
|         | AMAMIT                     | The states | <ul> <li>Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival.</li> <li>The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.</li> </ul>        |
|         | 25                         | AIZAWL     | <ul> <li>The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows.</li> <li>The fish should be fed preferable in the morning and evening daily.</li> <li>Water quality should be monitored</li> </ul> |
|         |                            |            |  |
|         |                            | LAWNGTLAL  | 8 Page   |



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Guwahati)



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V LAWNGTLA] SAIHA

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM

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



### **District:** Serchhip

| <b>Bulletin No:</b> | - 717, | /2017/ | Bulletin | /Mizo |
|---------------------|--------|--------|----------|-------|
|                     |        |        |          |       |

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

| Parameters            | 12.07.2017                            | 13.07.2017   | 14.07.2017      | 15.07.2017     | 16.07.2017       |  |  |
|-----------------------|---------------------------------------|--|-----------------|----------------|------------------|--|--|
| Rainfall (mm)         | 6                                     | 4  | 9               | 0              | 0                |  |  |
| Max Temp (°C)         | 31                                    | 30   | 30              | 29             | 33               |  |  |
| Min Temp (°C)         | 23                                    | 23   | 23              | 24             | 24               |  |  |
| Cloud Coverage        | Mainly cloudy                         | Mainly cloudy  | Mainly cloudy   | Mainly cloudy  | Partially clear  |  |  |
| Max RH (%)            | 100                                   | 100  | 100             | 100            | 100              |  |  |
| Min RH (%)            | 81                                    | 78   | 88              | 92             | 77               |  |  |
| Wind Speed (KmpH)     | 2                                     | 0  | 0               | 2              | 2                |  |  |
| *Wind Direction       | E                                     | E  | S-E             | E              | E                |  |  |
|                       |                                       | Casterly- N-E, East  |                 | -              | —                |  |  |
|                       |                                       | esterly- <b>S-W</b> , We   |                 |                |                  |  |  |
| STATUS OF MONSO       |                                       |  |                 |                |                  |  |  |
| Aizawl- 384.87mm      |                                       |  | Saiha- 307.40 n |                | b- 236.00mm      |  |  |
| (430.2mm)             | -                                     | 359.89mm)  | (507.7r         |                | (428.1mm)        |  |  |
| Lawngtlai-291.20mm    | •                                     | •  | Mamit-204.87n   |                | ip-411.72mm      |  |  |
| (453.1mm)             |                                       | 465.14mm)  | (442.80r        |                | (259.62mm)       |  |  |
| Weather summary       |                                       | 12 <sup>th</sup> July- 1   |                 |                |                  |  |  |
| three day             | · · · · · · · · · · · · · · · · · · · |  |                 |                | SIR ICII Sa      |  |  |
| <b>~</b>              |                                       |  | dinhmun tu      |                |                  |  |  |
| Maximum Tem. (°C):2   |                                       | fun ni 2 chhur   | 0               |                |                  |  |  |
| Minimum Tem. (°C):1   |                                       | tura beisei a ni. Khua a lum lai berin 29-33°C a ni ang a. A   |                 |                |                  |  |  |
| Maximum RH (%):94-98% |                                       | vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai  |                 |                |                  |  |  |
| Minimum RH (%):81-    |                                       | berin 100% leh a hniam lai berin 77-92% ni tur a rin niin.   |                 |                |                  |  |  |
| Wind Direction: Sout  | · · · · · · · · · · · · · · · · · · · | Thli hi darkar k   | hatah 0-2 km    | vela chakin    | chhaklam awi     |  |  |
| Cloud cover: Mainly o | - 7                                   | zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung  |                 |                |                  |  |  |
| Wind speed: 3 km/h    |                                       | nian khawthiang  |                 | 01             | 0 0              |  |  |
| Rainfall: 22.4 mm     |                                       | 2  | ,               |                |                  |  |  |
| Kainiali: 22.4 mm     |                                       | Weekl  | y cumulative    | rainfall: 13.0 | )mm              |  |  |
|                       |                                       |  | 9               |                |                  |  |  |
| NDVI for Mizoram      |                                       |  | Moderately      | wet mildly d   | lry/mildly wet   |  |  |
| MDVI IOI MIZOIAIII    |                                       | North East Region 29 June 2017   | conditions      | wet militily t | iry/initialy wet |  |  |
|                       |                                       | → Co2 back   | oll / wet       |                |                  |  |  |
|                       |                                       |  | Moderate        |                |                  |  |  |
|                       |                                       | 0.5-0.6 ]<br>0.6-0.7 ]   | Good            |                |                  |  |  |
|                       |                                       | Agriculture vigour is good over most of the parts Northern As<br>Tricura and Meehalava whereas moderate visour is noticed in |                 |                |                  |  |  |
|                       |                                       | of the region.   |                 |                |                  |  |  |
|                       |                                       |  | 152             |                |                  |  |  |
|                       |                                       |  |                 |                | 1   P a g e      |  |  |



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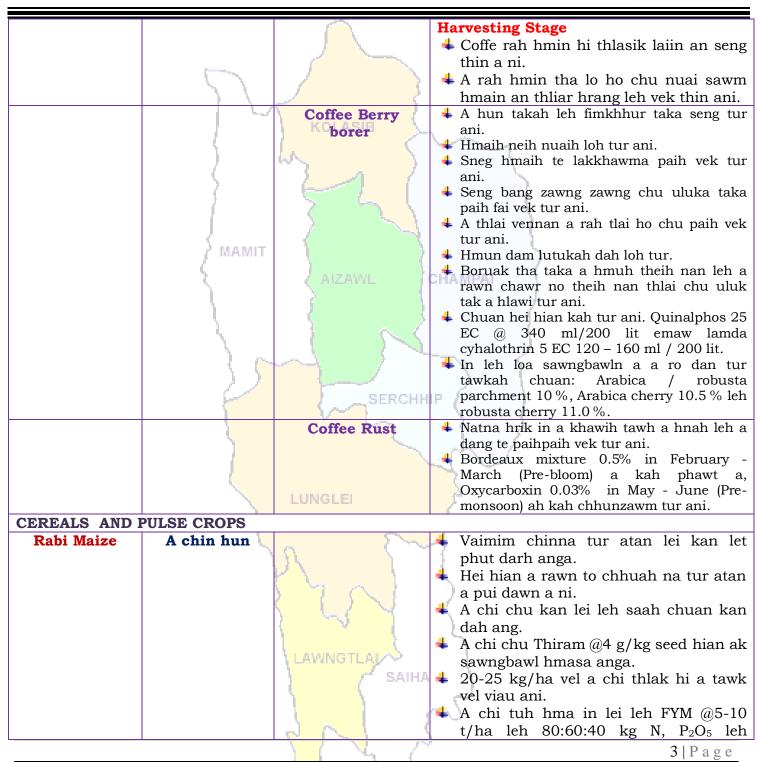
| Main Crop/    | Stage                                     | Cultural                | Agricultural / Horticultural/ animal  |  |  |  |
|---------------|---|-------------------------|---|--|--|--|
| Animal        |   | practices/ Pest/        | husbandry advisories  |  |  |  |
| /Fisheries    |   | Diseases                |   |  |  |  |
| FRUITS CROPS  |   |                         |   |  |  |  |
| KHASI         | A kui atanga 🖉                            | 2                       | 🔸 Thlasik laia thlai bul khoro lutuk tur  |  |  |  |
| MANDARIN      | a seng hun                                | KOLASIB                 | vennan chuan hnim hnah hring tlai bul   |  |  |  |
| AND ACID      | 3   | TOLADID >               | velah dahkhawm tur ani.   |  |  |  |
| LIME          |   | LA V                    | 4 Thlai naupang deuah chuan chawlh  |  |  |  |
|               | (   | 3 1 1                   | kar tin a tui pek thin tur ani.   |  |  |  |
| BANANA        |   |                         | Leia tha mamawh tawk a hmuh   |  |  |  |
|               |   |                         | theihna turin a hmunhma a hnim awm  |  |  |  |
|               |   |                         | te thlawhfai thin tur ani.  |  |  |  |
| STAR FRUIT    | A MAMIT                                   |                         | <b>4</b> A seng hma kar 6 chhung chu tui tha  |  |  |  |
|               | /   |                         | taka pek hian a rah tla tur chelh nan   |  |  |  |
| PLUM AND      | 2   | AIZAWL                  | leh a rah than that nan te leh a rah  |  |  |  |
| PEACH         | 1   |                         | keh tur lakah t a veng thei ani.  |  |  |  |
| PEACH         |   | Currenceie eiterre      | Tomporture brien lutult leb browns yong   |  |  |  |
|               | le la | Gummosis, citrus        | Temperture hniam lutuk leh hnawng vang<br>hian natna a a tam duh a . Soil bome natna                |  |  |  |
|               |   | canker, citrus          | - laka vennan Bordeaux past hi thing zar leh  |  |  |  |
|               |   | greening and<br>Dieback | a trangah te hnawih tur ani.  |  |  |  |
|               |   | Fruit fly RCHH          | Huan zau takah chuan a par tan tirh leh a   |  |  |  |
|               |   | A SERCHH                | rah tan tirin chawlhkar hnih chhung chu   |  |  |  |
|               |   |                         | heng te hian enkawl tur ani: carbaryl 0.2   |  |  |  |
|               |   |                         | percent emaw malathion 0.15 percent   |  |  |  |
|               |   |                         | suspension containing sugar or jeggery at   |  |  |  |
|               |   |                         | 10 g/l.   |  |  |  |
| PLANTATION CR |   | EUNGLEI                 |   |  |  |  |
| COFFEE        | All stages                                |                         | Nursery stage   |  |  |  |
|               |   | S                       | + Thlai chi thlak hma in Azospirillum leh   |  |  |  |
|               |   |                         | <ul> <li>Phosphobacterium a enkawl tur ani.</li> <li>A chi hi December – January ah hmun</li> </ul> |  |  |  |
|               |   |                         | zawl/rualrem 1.5 - 2.5 cm a in hlatin   |  |  |  |
|               |   |                         | tlar mumal tak siam in chin tur ani.  |  |  |  |
|               |   |                         | 4 Chuan a chi chu lei tlem te a chhilh a  |  |  |  |
|               |   | 1 2 1                   | buhpawla khuh tur ani.  |  |  |  |
|               |   |                         | Nitin tui pek tur ani a, a sat lutuka loh   |  |  |  |
|               |   |                         | nan niin a chhun loh nan zar hliah tur  |  |  |  |
|               |   | / SAIHA                 |   |  |  |  |
|               |   |                         | $\stackrel{\text{curr}}{=}$ Ni 45 hnu velah a tiak thin a,chu chu                                   |  |  |  |
|               |   |                         | bag ah an sawn chhuak leh thin ani.   |  |  |  |
|               |   |                         |   |  |  |  |
|               |   |                         | 2   P a g e   |  |  |  |
|               |   |                         | 211 450   |  |  |  |



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| Soybean, pea,   | All stage                   | Zero tillage | <ul> <li>K<sub>2</sub>O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</li> <li>↓ A than a that theih nan nikhat danah</li> </ul>  |
|---|-----------------------------|--------------|--|
| lentil toria,<br>breen gram<br>and black<br>gram<br>cultivation in<br>rice fellow |                             | Zero tinage  | <ul> <li>tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>   |
| Potato<br>VEGETABLE CRO   | Sowing stage                | AIZAWL       | <ul> <li>Muangchang loving alu chin na tur<br/>chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin<br/>lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai<br/>taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah<br/>hmasak tur ani.</li> <li>A than a that theih nan nikhat danah<br/>tui pek thin tur ani.</li> </ul> |
| Tomato  | Bacterial<br>Blight disease |              | <ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .</li> </ul>  |
| Early Cole<br>crop  | Black spot<br>disease       | LAWNGTLAL    | <ul> <li>A than a that theih nan nikhat danah<br/>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula<br/>hnim ring vawm khawm hi tui pek</li> </ul>   |
|   |                             |              | 4   P a g e  |



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| ICAR        |               |             |   |
|-------------|---------------|-------------|---|
|             |               | $\frown$    | awm thin a , hei hi natna tlanglawn                                       |
|             |               |             | ber ani.  |
|             |               |             | <ul> <li>Thlai hna lam chi leh zikhlum lam</li> </ul>                     |
|             |               |             |   |
|             | 1             | 1 5         | chi reng reng enkawl nan Mancozeb   |
|             |               |             | @ 2gm ah tui leter 1 pawlha kah   |
|             |               | KOLASIB     | tur ani.  |
| Onion and   | Nursery stage | Poly house  | A than a that theih nan nikhat danah                                      |
| capsicum    |               | W           | tui pek thin tur ani.   |
|             | $  \rangle$   |             | Thlai bul vawn hnawn nana thlai bula                                      |
|             | 1 1           |             | hnim ring vawm khawm hi tui pek<br>zawhah dah tur ani.                    |
|             |               |             | <ul> <li>Thlai chhina hmun (nursery) hi hnim a</li> </ul>                 |
|             |               |             | to loh nan Pendimethalin @ 3.5ml hi                                       |
|             | / MAMIT       | 1 1 2       | tui liter 1 zelah pawlh a kah hi a tha                                    |
|             | - E           | AIZAWL      | CHA hle ani.  |
|             | Ì             | Phytopthora | <b>4</b> A chi ven that nan thiram 3g/kg seed                             |
|             | 1             | blight      | emaw Trichoderma viride 4g+ metalaxyl 4g                                  |
|             | 1 A           |             | (Apron)/ kg seed hi a tha hle ani   |
|             |               |             | Hneh taka 1% Bordeaux chawhpawlh  |
|             |               |             | emaw 2 g captan emaw 3 copper<br>oxychloride a tui liter 1 hi 10-15 DAS a |
|             |               |             | pek hi a tha hle ani.   |
| French bean | Sowing stage  | SERCHH      | 4 Tui pek a hnihnah hringa khuh tur ani                                   |
|             | J             |             | a. than a that theih nan tui pek hma                                      |
|             |               |             | in lei rin pan hmasak tur ani.  |
|             |               |             | A than duna theih nan leh hnim to loh                                     |
|             |               |             | na turin a kung bulah lei vur chhoh zel                                   |
|             |               | LUNGLEI     | tur ani.  |
| Carrot and  | Sowing stage  |             | • A than a that theih nan nikhat danah                                    |
| radish      |               | 5~~.        | tui pek thin tur ani.   |
|             |               | 12          | Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.                   |
|             |               |             | <b>4</b> Zikhlum lam chi ah chuan sik leh                                 |
|             |               |             | sa vangin a hnah ah thil dum a  |
|             |               |             | rawn awm thina, hei hi natna  |
|             |               | Y I         | tlanglawn ber ani.  |
|             |               |             | <ul> <li>Thlai hna lam chi leh zikhlum lam</li> </ul>                     |
|             |               | SAIHA       |   |
|             |               | ( SAIHA     | Mancozeb @ 2gm ah tui leter 1   |
|             |               |             | $\sim$ pawlha kah tur ani.  |
|             |               |             | 🕤 pawilla kali tul alli.  |
|             |               |             | <b>5</b>   D o o o  |
|             |               |             | 5   P a g e   |



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| ANIMAL HUSBE | NDARY                |  |   |
|--------------|----------------------|--|---|
| Pig          | All stages           | KOLASIB  | <ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.</li> <li>Vawknote emaw vawk lak hran.</li> </ul> |
|              | AMAMIT               | Reproductive<br>Respiratory<br>Syndrome<br>(PRRS). | СНАМРАІ   |
|              | Adult stage          | Swine fever.                                       | 2. SF vaccines hi thla 2 hnua pek tur ani a,<br>chumi hnuah chuan kumtin thlaruk<br>danah pek chhunzawm tur ani.  |
| Cattle       | All age group        | SERCHH   | <ul> <li>Hun rei tak khua a ro avanga hnim<br/>hnah hring peh tur a awm loh laia<br/>bawngin an chaw ei in buk tawk tur<br/>leh an taksa tana mamawh tur atan<br/>buh kung urea molasses hmanga<br/>sawngbawl pek tur ani.</li> </ul>   |
|              | All age group        | Foot and Mouth<br>Disease (FMD)                    | • Kar 16 hnuah FMD vaccine pek a,<br>chuan thla tin thla 6 chhung<br>chhunzawm tur ani.   |
|              | Young stage          | Black Quarter<br>(BQ)                              | <ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah<br/>emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum<br/>tin pek tur ani.</li> </ul>  |
| Poultry      | Litter<br>management |  | Ar te hian hmun thawl nuam tawk,<br>chaw tha an mamawh tawk leh tui<br>thianghlim an mamawh tawk an hmu<br>tur ani a.   |
|              |                      | 5 2 7  | <b>6</b>   P a g e  |



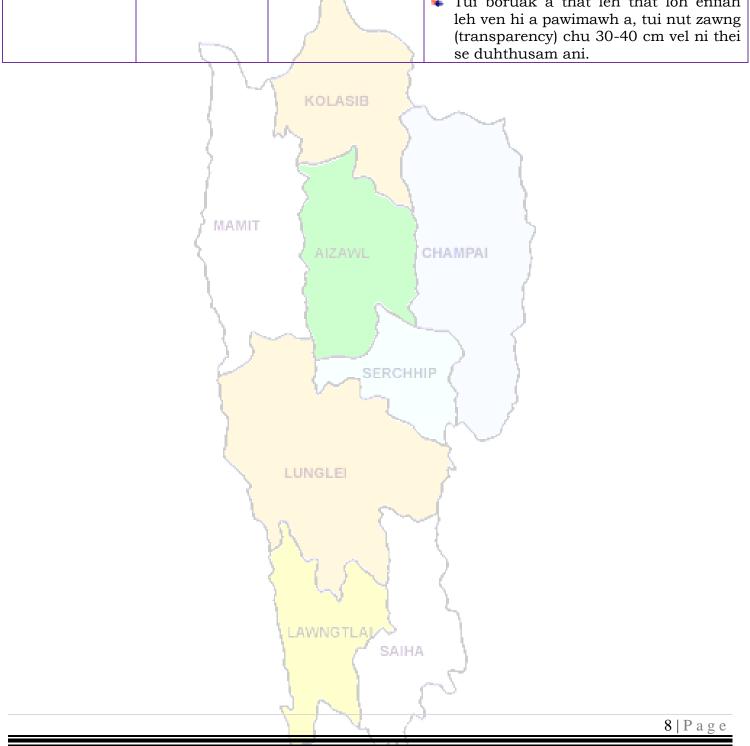
ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



|              | $\wedge$                | <ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a,</li> </ul>   |
|--------------|-------------------------|---|
|              | <pre></pre>             | an chaw eitur thlak sak thut loh tur ani.   |
| Preventive   | 0-3 rd week             | <b>Ranikhet</b> Disease- an pian atanga ni  |
| measures     | 4                       | 1-6 ah F1 vaccine pek tur ani a, chuan  |
|              | 13 A /                  | a puitlingh chuan R <sub>2</sub> B vaccine pek tur  |
|              |                         | ani.  |
|              | 4 <sup>th</sup> weeks   | <ul> <li>B complex with antibodies</li> <li>Coccidiosis- Amprolium or</li> </ul>  |
| l J          | Han weeks               | <b>Coccidiosis</b> - Amprolium or coccidiostat  |
| A MAMIT      | 4-5 <sup>th</sup> Weeks | $\downarrow$ Calcium tonic fortified with B <sub>12</sub>   |
| DIGUEDY .    |                         |   |
| FISHERY      | AIZAWL                  | CHAMPAI   |
| Stocking and | ( )                     | Dila chhuah turin sangha no te hrisel   |
| monitoring   | $\sim 1$                | tha hatchery atangin lei tur ani.<br>Sangha note harh tha deuh leh natna  |
| (Sangha      |                         | (taksa var, harhlo, pangparh hmawr  |
| chhuah leh   | ~~ / `                  | tawih) veilo tih hriat chian lei hram   |
| enkawl)      |                         | tum tur ani .   |
|              |                         | <ul> <li>Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha.</li> </ul> |
|              | LONGLEI                 | Sangha a lo than chak zawknan leh an  |
|              | ~                       | dam thatna turin diltuikhuah hectare  |
|              | A (~~                   | khat zel a zauah sangha note 8000   |
|              |                         | bawr vel chhuah hi a tha ber a ngaih ani.   |
|              |                         | ♣ Sangha te chu favai leh oik cake zat leh  |
|              |                         | zat (1:1) a chawh pawlhin an taksa  |
|              |                         | rihzawng za zel ah panga ang vel a  |
|              |                         | chaw pek thin tur ani a, sangha a lo  |
|              | / SAIHA                 | len deuh hnu ah za zel a pahnih angin<br>an chaw pek tih hniam thin tur.  |
|              |                         | Sangha te chu nitin zing leh tlaiah   |
|              |                         | chaw pek thin tur ani.  |
|              | 201                     | <b>F</b>  |
|              | N N N                   | 7   P a g e   |





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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,





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